

Digitron

FLUKE

HANNA
instruments

OREGON
SCIENTIFIC

TENMA

testo

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46

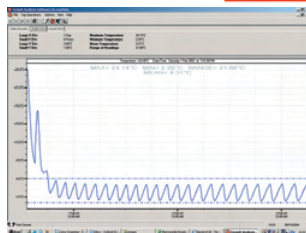
Test Equipment - Environmental/Weighing

Dataloggers

Temperature Data Logger
SL50

Signalrol

NEW



H=6, Ø=17mm Weight = 4g

The SL50 has a 10-year battery life, can record over 2000 data points and operates in a temperature range of -10 to +85°C.

The SL50 SmartButton Reader software is packed full of features including user selectable sampling rates, programmable alarm thresholds, graph zooming and start delay.

SmartButton Starter Kit

Included in the kit are 2 SL50 SmartButtons, the SL50 SmartButton interface cable, SL50 SmartButton Reader software and two soft mounted plastic fobs for identification.

- Single-channel temperature
- Sample rates 1 minute to 255 minutes
- Record readings for up to 1 year
- Plug and play for ease of use
- Zooming graph capabilities

Sensor specifications	Internal temp sensor: -10 to +85°C
Sensor accuracy	±0.5°C from 0 to +70°C
Sampling rates	User selectable rates from 1 to 255 mins
Memory size	Capable of storing 2048 readings
Battery	3V lithium (typical life - 10 years)
Resolution size	8 bit - 0.5°C
Communication	RS232 Serial/SL50 SmartButton
Clock accuracy	±2 secs per month
Number of channels	One internal temperature sensor

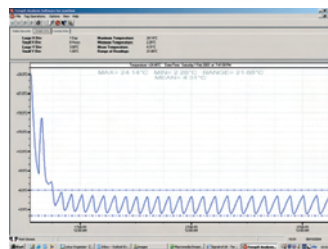
380683

Description	Mfrs. List No.	Order Code	1+	2+	3+
Data logger	FAR-SL50	839-6213	161.19	134.33	123.98
SmartButton interface	FAR-SL50 INTERFACE	839-6221	167.31	139.44	128.70
Data logger starter kit	FAR-SL50- KIT	839-6230	316.26	263.52	243.28

Temperature Data Logger
SL 120 Series

Signalrol

NEW



H=60, W=35, D=20mm

The SL120 series data loggers are designed to provide an accurate record of temperature exposure and are ideal for the monitoring of sensitive goods in transit. Up to 16000 records can be stored in the logger which uses the powerful TempIT-Lite software package, running on a PC, to download the configuration and to retrieve the data.

- Small physical size and robust
- High accuracy and resolution
- IR data transfer for fast download
- LED and audio alarm

Ideally suited to:

- Monitor goods in transit
- Check on ambient conditions in cold stores
- Optimise temperature control in HVAC applications
- Record experimental data to use as teaching aids in schools and colleges
- Discreetly monitor working conditions
- Ensure safe food storage

	SL120T	SL121T
Temperature range		-30 to +70°C
Sensor		Internal Thermistor
Accuracy		±0.4°C + resolution
Resolution		0.1°C
Logging interval		30 sec to 24 hours
Max No of readings	2048	16384
Response time (TC63°C)		≈ 5 mins
Delayed start	No	Yes
Programmable alarm points		High, Low
Alarm indication		Red/Green LEDs + Audio 'bleep'
Download time (approx)	20 seconds	100 seconds for 16k readings

Owner manifest
User manifest
Battery life
Protection
Material
Fixing
Communications - logger
Communications - reader
Communications rate

SL120T	SL121T
64 characters	450 characters
5 years @ 20°C	
Sealed to IP50 with encapsulated electronics	
Robust key fob type, light grey ABS	
Mounting hole to take security tie	
Short range infrared link to reader	
RS232 port / USB (order as appropriate)	
9600 baud	

380685

Description	Mfrs. List No.	Order Code	1+	2+	3+
Temperature data logger	SL120T	839-6256	193.84	161.51	149.11
Temperature data logger Kit	SL120-KIT	839-6264	601.95	501.60	462.99
Temperature data logger + alarm	SL121T	839-6272	214.24	178.50	164.80
RS232 Interface	SL120R-RS232	839-6280	214.24	178.50	164.80
USB Interface	SL120R-USB	839-6299	234.65	195.53	180.49

Environmental Data Logger

PEAK

EDD03



W=103 H=70 D=20mm

NEW

DURACELL
Ultra M3 AAA
Power Reserve 300
Clear Code 170-176

Ready to go, straight out of the box. Sound and light is measured using its internal precision sensors, whilst temperature is measured using a waterproof flexible probe.

Simple! Just press a button and live readings of light, sound and temperature will be displayed on the easy-to-read display. Press a button and it will start recording to its own memory. You can stop recording at any time, or you can just leave it. It will even continue recording when it's switched off! If you want to see your recorded data, just plug it into your PC. Your favourite spreadsheet will be automatically loaded with columns of data for time, light, sound and temperature - ready for you to graph and chart. It couldn't be easier, no messing with importing/exporting/communications settings - It's all automatic.

Tough! Designed with the real world in mind. With the weatherproof wallet you can leave outside for a few days to see how light levels and temperature vary through days and nights and also monitor the rushhour noise pollution levels.

Opens up a world of learning opportunities, from science experiments, ICT hands-on activities, environmental experiments to maths schemes (incorporating graphing, presentation and analysis skills).

- Displays live readings of light, sound and temperature levels
- Record days of continuous data
- Absolutely NO settings to fiddle with and the PC software is easy to use
- Intuitive and smart.
- Plug into your PC and your favourite spreadsheet will be automatically loaded with your logged data
- Slim and light - take it anywhere

Includes: tough padded carry case, weatherproof wallet for outdoor monitoring and a waterproof temperature probe.

Temperature Range	-20°C to 110°C
Temperature Accuracy	±1°C
Light Level Range	0 to 100,000 Lux
Sound Level Range	0 dB to 80 dB
PC Interface	USB (1.1 or 2.0)
PC Requirements	Win98/ME/XP
Battery Type	2 x AAA

417217.428877

Mfrs. List No.	Order Code	1+	3+	10+
EDD03	105-7244	451.73	384.81	331.26

Dataloggers

175 / 177 Series

testo





The Testo 175 & 177 series data loggers provide simply and accurate solutions to on-site data acquisition.

175-T1

- Single channel - °C internal
- Display
- 7800 logged values
- IP68 rated

175-T2

- Dual channel - °C internal and external
- Display
- 16000 logged values
- IP68 rated

175-T3

- Dual channel thermocouple model - 2 x °C external thermocouples (sub mini-ture connector)
- Display
- 16000 logged values
- IP54 rated

175-H1

- %RH and °C (internal)
- 4700 logged values

175-H2

- %RH and °C (internal)
- Display
- 16000 logged values

175-S1

- mV and mA logger
- 16000 logged values

177-H1

- Long term stable humidity sensor
- Fast response time

- Protective Caps for dirt-infested air or corrosive gases

177-T1

- Single channel deep freeze monitor
- Suitable for down to -40°C
- 48000 logged values

177-T2

- Internal °C + 2 x External °C + event contact
- Long period monitor
- Suitable for down to -40°C
- 48000 logged values
- Up to 5 years battery life

174-T4

- 4 x External probe sockets
- Suitable for temperature extremes
- Real time read outs
- IP43 rated
- 48000 logged values
- Up to 5 years battery life

Software

The loggers can be programmed using the Comsoft 3 software, and data can be downloaded for further analysis.

Interface: Contains desktop holder and PC cable

COMSOFT3 Basic: Features diagram and spreadsheet functions. Supplied with PC interface and desktop holder.

COMSOFT3 Pro: Additional features include database analysis and graphic functions, data analysis and trend curves, Interface is not supplied, order code 501-0550.

Measuring Range

175-T1	-35°C to +70°C
175-T2	-35°C to +70°C (int); -40°C to +120°C (ext)
175-T3	-50°C to +1000°C (type K); -50°C to +400°C (type T)
175-S1	0 to 1V/0 to 10V; 0 to 20mA/4 to 20mA
175-H1	0 to 100% RH; -10°C to 50°C
175-H2	0 to 100% RH; -20°C to +70°C
177-T1	-40°C to +70°C
177-T2	-40°C to +70°C
177-T3	-40 to +120°C (probe dependant)
177-T4	-200 to +1000°C (probe dependant)

Accuracy

175-T1	±0.5°C (-20°C to +70°C); ±1°C (-35°C to -20.1°C)
175-T2	±0.5°C (-20°C to +70°C); ±1°C (-35°C to -20.1°C)
175-T3	±0.5°C (-20°C to +70°C); ±0.7% of reading
(without probes)	±1 digit (70.1°C to +1000°C)
175-S1	1mV (0 to 1V); 10mV (1 to 10V); 0.1mA (0 to 20mA)
175-H1	±3% RH; ±0.5°C

175-H2	±3% RH; ±0.5°C
177-T1	±0.4°C (-25 to +70°C); ±0.8°C (-40 to -25.1°C)
177-T2	±0.4°C (-25 to +70°C); ±0.8°C (-40 to -25.1°C)
177-T3	probe dependant
177-T4	probe dependant

339568.344015

Mfrs. List No.	Order Code	1 +	+	+
175-T1	501-0585	246.08	--	--
175-T2	501-0597	306.78	--	--
175-T3	501-0603	410.13	--	--
175-H1	501-0615	462.21	--	--
175-H2	501-0627	614.22	--	--
175-S1	501-0639	418.33	--	--
177H1	836-9186	1,103.38	--	--
177-T1	501-0640	410.13	--	--
177-T2	501-0652	605.43	--	--
177-T3	501-0664	686.80	--	--
177-T4	501-0676	833.35	--	--
174 Pro	501-0524	138.34	--	--
Interface Only	501-0550	163.35	--	--
COMSOFT3 Pro	501-0548	620.86	--	--
COMSOFT3 Basic - 175 Series	825-9291	188.04	--	--
COMSOFT3 Basic - 177 Series	825-9305	188.04	--	--
COMSOFT3 Basic + USB Interface	868-2984	280.74	--	--
Wall Holder	870-4589	32.00	--	--
Lock for Wall Holder	870-4597	21.22	--	--
Probe, Air	829-1659	177.92	--	--
Probe, Food	829-1667	228.50	--	--
Probe, Immersion (IP67)	829-1675	284.00	--	--

Temperature Dataloggers



The Testo 174 mini temperature data logger is ideal for logging data during transportation. The logger is simply placed beside the product e.g. in aeroplanes, containers, refrigerated rooms etc. and constantly monitors the fluctuations in temperature unobtrusively. The logger can display the most up-to-date reading and max and min values immediately on-site, and indicates when limit values have been exceeded. The logger can be programmed via PC/Notebook using ComSoft 3 professional software, and data can be downloaded for further analysis.

- Secure date - even if battery is spent
- Current reading is shown on large display
- Battery is easy to change
- Data transfer to PC or Notebook via interface
- IP65 rated

Inputs	1 internal	Memory	3900
Probe Type	NTC	Battery Type	Lithium Battery (2032)
Measurement Range	-30°C to +70°C	Weight	24g
Accuracy (±1 digit)	±0.5°C	Dimensions	55 x 35 x 14mm
	±0.8°C	Battery Life	500 days (typical)
	±0.8°C	Measurement Cycle	1 min to 4 hours (selectable)
Operating Temperature	-30°C to +70°C		

339567.344013

Description	Mfrs. List No.	Order Code	1 +	+	+
Data Logger	174	501-0524	138.34	--	--
Data Logger Kit	174 + KIT	501-0536	324.21	--	--
Software	COMSOFT 3	501-0548	620.86	--	--
Interface	0554 1757	501-0550	163.35	--	--
Fast Printer	0554 1775	501-0561	817.01	--	--
Data Collector	0554 1778	501-0573	488.05	--	--
Printer Rolls, 6 Pack	05540569	444-6537	37.11	--	--

Temperature Data Loggers



Temperature Range	Resolution	Accuracy	Order Code
-30 to 70°C	0.5 °C	+/-1.5 °C	725-9190
-10 to +30°C	0.2°C	+/-0.5 °C	725-9207
-30 to +10°C	0.2 °C	+/-0.5 °C	725-9219
-5 to +15°C	0.1 °C	+/-0.3 °C	725-9220

- Theft and tamper proof at measuring location
- Attachable display module, measured values are visible
- High measuring accuracy
- Ideal for transportation, process industries, museums, etc
- Programmed through a PC link using Windows software
- 7600 recordings in non-volatile EEPROM
- User-selectable interval from 1 minute to 24 hours
- Out of range intermittent LED alarm signal

224515

	Mfrs. List No.	Order Code	1 +	Price Each		
				+	+	+
-30 to 70°C	HI-140AH	725-9190	180.75	--	--	--
-10 to +30°C	HI-140BH	725-9207	200.63	--	--	--
-30 to +10°C	HI-140CH	725-9219	180.75	--	--	--
-5 to +15°C	HI-140GH	725-9220	180.75	--	--	--
Infra-red link	HI-90140	725-9232	139.57	--	--	--
Windows®	HI-92140	725-9244	142.99	--	--	--

Data Loggers and Software



EasyLog is a range of miniature datalogging instruments. Capable of measuring, displaying and recording various parameters (temperature, humidity, voltage etc.) over an extended period of time, when connected to a suitable sensor. EL-Win software allows the modules to be controlled via an RS 232 port on a PC running Windows. The program configures the datalogging module and provides extensive material for graphing and analysing the collected data. After being configured, an EasyLog module may be disconnected from the PC to operate as an independent unit.

- Built-in LCD shows latest recording reading
- Readings are safely stored in non-volatile memory
- Delayed start, push-to-start and start-on-battery-insert options
- Graph up to three data files simultaneously
- Logged data can be exported to most popular spreadsheets

EL-2

An 8-Bit self-contained battery power datalogger, Windows compatible, which is easily configured to take a number of different sensors and inputs

EL-2-12BIT

Higher resolution version of the EL-2

EL-2-IR

This datalogger can be programmed and the data downloaded using an infra-red link

EL-LINK-IR

Fits the RS232 serial port of a PC or laptop to communicate using infra-red at 9600 Baud at distances up to 1m

EL-WIN

Control software configures and operates most data loggers in the EasyLog range. It allows up to 8 EasyLog modules to be operated as a network. Includes autocue prompting and a mimic mode for remote indication of the reading on the PC. It also has extensive graphing facilities and the ability to export data directly to spreadsheets. EL-WIN is supplied on a 3½" disk with a manual and a serial communications cable.

	8-bit data loggers	12-bit data loggers
	EL-2 EL-2-IR	EL-2-12-BIT EL-IP67-12
Temperature	-25 to +200°C	-200 to +200, -200 to 650°C
Humidity	5 to 95% RH	-
pH	0 to 14	-
Voltage	0 to 2V, 0 to 20V	0 to +/-200mV, 0 to +/-2V, 0 to +/-20V
Current	0 TO 2AD.C.	4 to 20mA
Rate Count	0 to 255	-
Frequency	40 to 400Hz	-
Memory Capacity	up to 6000 readings	up to 8000 readings
Logging Rate	1 sample per 5 second to 1 hour	-

224516

Mfrs. List No.	Order Code	1 +	5 +	10 +	25 +
EL-2	897-930	275.40	260.10	247.20	238.68
EL-2-12BIT.	725-3977	520.05	499.23	483.99	460.11
EL-2-IR	201-571	358.02	321.30	309.00	304.48
EL-LINK-IR	202-058	109.24	102.66	96.74	91.84
EL-WIN	897-954	113.22	95.98	--	--
K-TYPE PROBE-P	725-3990	91.95	--	--	--
PH PROBE D	725-4003	139.89	--	--	--
PT-TYPE PROBE-D	725-4015	135.58	122.09	113.56	109.88
RH PROBE-D	725-4027	431.68	418.36	--	--

8 Bit Miniature Data Loggers



Evaluation Kit (EL-2 based)

EasyLog is a range of miniature datalogging instruments. EL-2 and EL-2-IR are capable of measuring, displaying and recording



Envir. Protected Module



Panel Mounting Module

various parameters (temperature, humidity, voltage etc.) over an extended period of time, when connected to a suitable sensor. EL-LITE is an environmentally protected temperature-only module. The collected data can be transferred to a computer for printout and analysis. The program configures the datalogging module and provides extensive facilities for graphing and analysing the collected data. After being configured, an EasyLog module may be disconnected from the PC to operate as an independent unit. An evaluation kit, based around EL-2 and a K-type temperature probe is also available. EL-2-IR features Infrared communications, allowing the data logger to be configured and downloaded using an EL-LINK-IR order code 202-046 (RS232 to IR converter module)



Cased Module

- Easy to use Windows software (supplied on 3.5" disk) is supplied with communications cable
- Daisy-chain up to 8 modules on one RS232 port via Easylink cables
- Infrared communications (EL-2-IR)
- Built-in LCD shows latest recorded reading
- Readings are safely stored in non-volatile memory
- Hi and Lo programmable alarm levels
- Delayed start, push-to-start and start-on-battery-insert options independently
- Graph up to 3 data files simultaneously
- Logged data can be exported to most popular spreadsheets
- Evaluation kit comprises EL-2 module, EL-WIN software, K-type temperature probe and comprehensive manual
- Software calibration

Battery Life	Up to 3 years (dependent on sample rate and input mode)
Memory Size	Up to 8000 readings
Sample Rate	5 seconds to 12 hours

Input	Range	Resolution
Temperature	-25 to +200°C	1°C (factory default setting)
Humidity	5 to 95% RH	1%RH
pH	0 to 14	0.1pH
Voltage	0 to 2V, 0 to 20V	0.01V
Current	0 TO 2A d.c	0.1V
Rate Count	0 to 255 counts per logging interval	
Frequency	40 to 400Hz	

FOR SUITABLE ENCLOSURES FOR EL-1 ORDER CODES 465-951 (EASY LOG BATTERY NOT USED) AND 465-963 (EASYLOG BATTERY USED)

FOR SUITABLE TEMPERATURE SENSORS, SEE K-TYPE SENSORS, PROBES

FOR SUITABLE HUMIDITY SENSOR, ORDER CODE 414-669

FOR SUITABLE 1Ω6W SHUNT FOR CURRENT SENSING, ORDER CODE 104-242

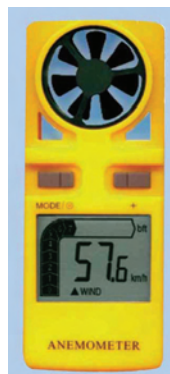
228145

	Mfrs' List No.	Order Code	1 +	5 +	10 +	25 +
Cased Module	EL-2	897-930	275.40	260.10	247.20	238.68
Cased IR Module	EL-2-IR	201-571	358.02	321.30	309.00	304.48
Software & Comms. Cable (EL-1 and EL-2)	EL-WIN	897-954	113.22	95.98	--	--
Networking Cable (EL-1 and EL-2)	EASYLINK	897-978	84.54	81.30	--	--
Evaluation Kit (EL-2 based)	EL-EVAL-2	897-980	440.64	418.23	400.08	374.65

Air Velocity - Anemometers

Handheld Anemometers

EA3000 and EA3010



EA3000 features

- Wind speed measurement in mph, Km/h, m/s or Knots
- LCD backlight
- Auto power off
- Neck band included
- Water resistant

EA3010 extra features

- Beaufort wind graph display
- Wind chill display
- Max wind speed memory
- Temperature display in degrees Celsius or Fahrenheit

NEW

These handheld anemometers are ideal for the outdoor professional, being water resistant and having a backlight makes them ideal for all weather conditions.

381131.344352

Mfrs. List No.	Order Code	1 +	Price Each
EA3000	838-8733	64.55	--
EA3010	838-8741	92.21	--

Vane Anemometer 72-6638

TENMA


A small, low cost meter that can accurately measure air velocity and wind speed in air conditioning and heating systems.

- 3½ digit LCD
- Accurate $\pm(3\% + 2 \text{ digit})$ air velocity measurement
- Measurement in ft/min, m/sec, knots and km/hr
- Low-friction ball bearing wheel
- Includes owner manual
- Requires 9V battery (not included)
- CE marked

H=76.2, W=38.1, L=110

	Resolution		Resolution
m/sec	0.8 to 30.0m/sec	0.1m/sec	0.1 knots
Km/hr	2.8 to 108 km/h	0.1km/hr	10 ft/min

228156

Mfrs. List No.	Order Code	Price Each
72-6638	356-2669	1+ 211.58

Thermo-Anemometer 72-6698

TENMA


- Large 3½ digit dual LCD display
- Measures and displays air velocity in ft/min, mph, m/sec, km/h or knots
- C/F temperature readings
- High Accuracy
- Min./Max/Average memory with recall
- Data Hold
- Auto power Off
- Requires 9V PP3 type battery (not supplied)

NEW

H = 184, W = 79
D = 38 (mm)

Temperature	km/hr	1.4 to 90km/hr, 0.1km/hr Resolution
Range	mph	0.9 to 55.9mph, 0.1mph Resolution
Resolution	knots	0.8 to 48.6 knots, 0.1knots Resolution
Accuracy	ft/min	80 to 4930ft/min, 1ft/min Resolution
Air Velocity	Air Velocity Accuracy	$\pm(2\% + 1 \text{ digit})$
Ranges		
m/sec	0.4 to 25m/sec, 0.1m/sec Resolution	

248988

Mfrs. List No.	Description	Order Code	1+	10+
72-6698	Thermo-Anemometer	428-4355	298.20	--
72-6699	Hard Carry Case	428-4367	33.38	32.01

Large-Area Vane Anemometer 417

testo


Features a fixed flow-temperature vane to measure flow, volume flow and temperature. Volume flow is shown directly on the clear backlit display. Just input the duct measurements, and accurate volume flow calculations are automatically displayed. You can also switch between flow and temperature. Flow direction, either from pressure or vacuum source, is visible in the display.

- Direction recognition of flow
- Temperature, flow and volume flow measurement
- Multi-point or timed mean calculation
- Max/min values
- Hold button to freeze readings
- Display light
- Auto-Off function
- 2 years warranty

NEW

Probe Type	NTC	Vane	Volume Flow
Measurement range	0 to 50°C	0.3 to 20 m/s	0 to 99999 m³/h
Resolution	0.1°C	0.01 m/s	0.1 m³/h (0 to 99.9 m³/h)
			1 m³/h (100 to 99999 m³/h)
Accuracy	$\pm 0.5^\circ\text{C} \pm 1 \text{ digit} \pm (0.1 \text{ m/s} + 1.5\% \text{ of mv}) \pm 1 \text{ digit}$		
Operating Temperature	0 to 50°C		
Battery	9V		
Battery life	50 hours		

418057

Description	Order Code	1+	+	+
Vane Anemometer	108-2990	783.48	--	--
Instrument and Probe Case	108-3011	55.50	--	--
Funnel Set	108-3033	346.04	--	--

Compact Vane Anemometer 416

testo


- Direct display of volume flow
- Multi-point or timed mean calculation
- Max/min values
- Hold button to freeze readings
- Display light
- Auto-Off function
- Optional TopSafe protects instrument from dirt and impact
- 2 years warranty

NEW

An easy to use anemometer with an attached 16mm vane probe on a telescopic handle (maximum length 890 mm). Just enter the duct measurements directly into the testo 416 and the volume flow measurement is shown on the clear display. You can switch between flow and temperature readings easily. Timed and multi-point mean flow calculations allow easy flow analysis, volume accumulation estimates, and temperature variation monitoring.

Probe Type	Vane
Measurement range	0.6 to 40 m/s
Resolution	0.1 m/s
Accuracy	$\pm(0.2 \text{ m/s} + 1.5\% \text{ of mv}) \pm 1 \text{ digit}$
Operating Temperature	-20 to 50°C
Battery	9V Alkali Manganese
Battery life	80 hours

418051

Description	Order Code	1+	+	+
Vane Anemometer	108-2988	1,083.78	--	--
Instrument and Probe Case	108-3011	55.50	--	--
TopSafe - Protective Carry Case	108-2989	55.50	--	--

Vane Type Anemometers

AIR FLOW



DURACELL
Ultra M3 9V
Alkaline Battery 150
Order Code 374-0766

Supplied without meter

- Metric and Imperial display in m/sec or ft/min
- Volume flow version, LCA6000VA
- Intrinsically safe units
- Lightweight, robust and simple to use
- Supplied with case and calibration certificate (at time of manufacture)
- Ideal for HVAC, commissioning at grilles, ducts and diffusers
- Turn the LCA6000VA into air volume flow meter with use of the flow hoods
- Both hoods are supplied in a carry case

Operating Environment	500mb to 2 bar
Temp.	-10 to 50°C
Dimensions	268 x 113 x 43
Weight	280g
Power Supply	1 x PP3 battery
Battery Life	50hrs continuous life
Velocity Range	0.25 to 30m/s
Accuracy @ 20°C and 1013mbar	5 to 30 msec Calibrated better than $\pm\%$ of reading 0.25 to 4.99m. sec $\pm 0.1 \text{ m/sec}$

Items specific to LCA6000VA	
Volume range	0.002-3000 m³/sec
Area input range	0.008-90.00 m²

Velocity Range m ³ sec cfm	Rectangular Hood 0-0.1 0-0210	Circular Hood 0-0.1 0-210
Flange Dimensions mm ins	285 x 235 11.2 x 9.2	180 7.1

224517

Mfrs. List No.	Order Code	1+	+	+	+
LCA6000	724-6109	627.30	--	--	--
LCA6000VA	724-6110	902.70	--	--	--
AIRCONE KIT	725-6759	224.36	--	--	--

Anemometer AF200



L=140, W=70, D=26mm

Digitron AF200 offers high standards of performance and value for precision air velocity measurements. The pitot tube method of measurement employed by the AF200 is suitable over the range 1.5m/s to 58m/s and up to +600°C. The instrument also functions as a stand alone micromanometer or temperature meter for true user versatility.

Digitron

NEW

- Velocity, temperature and pressure measurement
- Multi-point averaging
- Smoothing
- Correction mode for temperature, pressure and K factor
- Easy zero adjust
- Measurements in both imperial and metric units
- Last configuration memorised
- Simplicity and reliability
- Over 300 hours battery life
- Backlit display
- Kit includes:
 - 12 inch pitot tube
 - Air temperature probe
 - Nylon tubing
 - Connector tubing
 - Quick fit pressure connectors
 - Rubber tubing
 - Instrument protective cover and sling
 - 9V PP3 battery
 - Custom carrying case

Measurement Ranges

Unit	Range	Unit	Range
m/s	1.5 to 58.0	mbar	0.00 to 19.99
ft/min	300 to 9999	inH ₂ O	0.000 to 8.029
°C	-60 to +590	mmH ₂ O	0.0 to 203.9
°F	-76 to +1094	Pa	0 to 2000
hPa	0.00 to 20.00		

Correction Ranges

Value	Display Symbol	Unit	Settable in Range
Air Temperature	CORR °C	Celcius	-100 to +600
Static Pressure	CORR mbar	mbar (Absolute)	500 to 1500
Pitot Tube Cal Factor	CORR k	(factor)	0.10 to 3.00

Instrument Accuracies

Measurement	Ambient Temperature	Specification
Pressure	+15°C to +25°C	±0.2% Reading ±1 digit
	-10°C to +50°C	±0.3% Reading ±1 digit
Temperature	-10°C to +50°C	±0.1% Reading ±1 °C
Velocity	+15°C to +25°C	±0.2m/s at 10m/s to 58m/s, ±40ft/min, 2000 to 9999ft/min
	+15°C to +25°C	±0.3m/s at 4m/s, ±60 ft/min at 800 ft/min

339437

Description	Mfrs. List No.	Order Code	1+	+	+
Anemometer	AF200.	500-4706	1,546.12	--	--
Anemometer Kit	AF200K12	500-4718	2,219.91	--	--

Compact Thermal Anemometer 425



An easy to use, compact anemometer with an attached thermal probe on a telescopic handle (max. 820mm). Duct measurements are easily entered and the volume flow measurement is calculated and shown on the clear display. In addition, it is possible to switch easily between flow and temperature readings.

- Temperature, flow and volume flow measurement
- Multi-point or timed mean calculation
- Max/min values
- Hold button to freeze readings
- Display light
- Auto-Off function
- 2 years warranty

Probe Type	NTC	Thermal Anemometer
Measurement range	-20 to +70°C	0 to 20 m/s
Resolution	0.1°C	0.01 m/s
Accuracy	±0.5°C ±1 digit ±(0.03m/s+5% of mv) ±1 digit	
Operating Temperature	-20 to 50°C	
Battery	9V	
Battery life	20 hours	

418065

NEW

Description	Order Code	1+	+	+
Thermal Anemometer	108-2992	992.38	--	--
Instrument and Probe Case	108-3011	55.50	--	--
TopSafe - Protective Carry Case	108-2989	55.50	--	--

Pressure Measurement

Manometers 506 Series



The testo 506 is a small and practical differential pressure meter with a switchable measurement range ideal for heating and ventilation service and repair.

506 (0 to 10mbar) 501-0469

- 5 switchable units: hPa/bmbar, mmH₂O, mmHg, inH₂O, psi
- Magnetic holder and suspension eye on the rear

506 (0 to 500pa) 501-0470

- Integrated air flow measurement up to 27 m/s
- 5 switchable units: hPa/bmbar, mmH₂O, mmHg, inH₂O, psi

- Magnetic holder and suspension eye on the rear
- 506 (0 to 200mbar) 501-0482
- 5 switchable units: hPa/bmbar, mmH₂O, mmHg, inH₂O, psi
- Magnetic holder and suspension eye on the rear
- Soft rubber housing protection
- 4/6mm hose connections

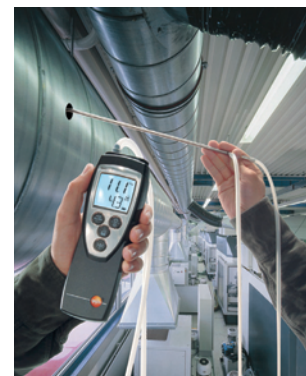
339565.344011

Mfrs. List No.	Order Code	1+	+	+
506 (0TO10MBAR)	501-0469	287.09	--	--
506 (0TO500PA)	501-0470	522.91	--	--
506 (0 TO 200MBAR)	501-0482	320.72	--	--

Pressure and Flow Meters 512



W=57 H=202 D=42mm.
Weight 300g



A range of 4 instruments for the measurement of pressure and velocity. All of the instruments can be used with the testo printer (836-9240) to provide onsite documentation of readings with date/time and minimum/maximum values. Also available is a TopSafe case (108-2989) to protect your instrument from dirt, water and impact.

- Simultaneous display of flow and pressure value
- 8 units for pressure: kPa, mbar, bar, mm H₂O, mmHg, psi, inch H₂O, inch Hg
- 2 units for flow: m/s, fpm

- Built-in density compensation
- Smoothing adjustable between 1 to 20 display refreshes (0.5 s) as rolling mean
- Readings printout with date/time and min./max. values
- Hold/Max/Min function
- Backlit display
- 2 years warranty

Model	108-3007	108-3008	108-3009	108-3010
Pressure Measurement				
Probe Type		Built-in Pressure Probe		
Measuring Range	0 to 2 mbar	0 to 20 mbar	0 to 200 mbar	0 to 2000 mbar
Resolution	0.001 mbar	0.01 mbar	0.1 mbar	1 mbar
Overload	±10 mbar	±200 mbar	±2000 mbar	±4000 mbar
Flow Measurement				
Probe Type	Pitot Tube	Pitot Tube	Pitot Tube	No Flow
Measuring Range	2 to 17.5 m/s	5 to 55 m/s	10 to 100 m/s	
Resolution	0.1 m/s	0.1 m/s	0.1 m/s	
General Specifications				
Accuracy ±1 digit	0.5% of fsv	0.5% of fsv	0.5% of fsv	0.5% of fsv
Operating Temperature	0 to 60°C	0 to 60°C	0 to 60°C	0 to 60°C
Battery Life	120 hours	120 hours	120 hours	120 hours

Prices are in Singapore Dollars and exclusive of GST.
Due to the volatile nature of certain products,
prices are subject to change without notice.

418790				
Description	Order Code	1+	3+	5+
Manometer, 0-2mbar	108-3007	936.89	--	--
Manometer, 0-20mbar	108-3008	894.47	--	--
Manometer, 0-200mbar	108-3009	868.34	--	--
Manometer, 0-2000mbar	108-3010	894.47	--	--
Accessories				
Pitot Tube	501-0720	278.89	--	--
Meter / Probes Case	108-3011	55.50	--	--
Protective Case	108-2989	55.50	--	--
IRDA Printer	836-9240	532.09	491.18	456.09
Spare Printer Rolls (6)	444-6537	37.11	--	--

Differential Manometers

511



The testo 511 series pressure meters offer switchable measurement ranges for differential, positive and negative pressure. Ideal for tuning, service, repair and installation of heating and ventilation equipment.

- Automatic switching of measurement range
- 5 switchable units: hPa/mbar, mmH₂O, mmHg, inH₂O, psi
- Hose connections for 4mm or 6mm inner diameter
- Temperature compensated



Mfrs. List No.	Order Code	1+	Price Each	+
511 (0 TO 200MBAR)	501-0494	376.83	--	--

Hand Held Digital Manometers

2000 Series



The 2000P series of hand held manometers represents a new standard in pressure measurement, ease of use and accuracy of reading. Selected models feature automatic leak testing and logging

- Pressure ranges from 2mbar to 7 bar
- Scales in mbar, bar, psi, inH₂O, in HG, mmH₂O, mH₂O, mm/cm/ mHg, Pa and kPa
- Accuracy performance 0.2% of reading

- Automatic zero calibration for added accuracy
- Logging mode for storage, retrieval and output readings
- Long battery life 200 hours
- Digilink interface box for downloading to a printer or PC

- Digilog software includes zoom, chart wizard and data analysis for logging thermometers
- 200BT protective holder with tilt stand
- Sealed to IP64

Model	2021P	2022P	2023P	2081P	2082P	2083P
Operating Range	0 - 130mBar	0 - 2Bar	0 - 7Bar	0 - 130mBar	0 - 2Bar	0 - 7Bar
Backlight	●	●	●	●	●	●
Zeroing	●	●	●	●	●	●
Hold	●	●	●	●	●	●
Range Lock	●	●	●	●	●	●
Max/Min	●	●	●	●	●	●
Smoothing	●	●	●	●	●	●
Units of Pressure	●	●	●	●	●	●
Logging	●	●	●	●	●	●

Operating Temperature 0°C to 50°C

Battery Type 2AA

Mfrs. List No.	Order Code	1+	Price Each	5+	10+
2021P	300-3360	688.50	--	--	--
2022P	493-855	715.37	--	--	--
2023P	493-867	688.50	--	--	--
2081P	493-879	780.30	--	--	--
2082P	493-880	780.30	--	--	--
2083P	207-597	780.30	--	--	--
DIGILOG. Software	300-6943	165.00	160.89	156.84	--
DIGILINK. Interface Box	300-7510	211.14	--	--	--
2000BT Protective Holster	300-3413	58.14	--	--	--

222545

Pressure Calibrator

7040 & 7090

Time Electronics



H=157, W=90, D=33mm
Weight = 0.29kg

- Pressure/Vacuum calibration 0.04% accuracy
- Loop current calibration
- 9 engineering units - bar, psi, kPa, inWg, cmWg, inHg, kg/cm², Atm
- Min/Max function
- Leak rate function
- 4.5 digit display
- 9V internal battery
- RS232 serial interface

NEW

A portable pressure calibrator that can display pressure in 9 popular engineering units. Loop current can also be displayed in mA, or as a % of span (4-20mA). Also features min/max logging, leak rate display and can be connected to a PC or laptop.

7090 Pressure Pump

An engineered vacuum / pressure calibration pump suitable for work in all conditions. The pump incorporates dual output ports, a third gauge port on the top surface, volume chamber position indicator for better fine control and the option to rotate the handle arrangement to suit application, range of -850mbar to 35bar it's a hard specification to beat.

Pressure Calibration

Pressure range	2 bar or 20 bar to -1 bar
Vacuum	2 bar: 0.1% of range ± 1 digit, 20bar: 0.04% of range ± 1 digit
Accuracy	4.5 digit
Resolution	Off (4 readings/sec), average of 4 or 16 readings
Filter	< 0.005% per °C
Temp stability	Piezoresistive
Sensor	1/8" BSP female in a stainless steel manifold
Pressure connection	3 x full scale or 35 bar
Over pressure	Stainless steel and silicon
Wetted parts	Bar, PSI, KPa, inWg, cmWg, inHg, mmHg, Kg/cm2, Atm
Units	

Loop Current Calibration

Ranges	±200mA and % of 4 - 20mA
Accuracy	0.05% of reading ± 2 digits (0.1% for 4-20mA range)
Resolution	10µA (200mA range), 0.1% (% of 4-20mA)
Loop resistance	<2Ω
Protection	250mA
Sockets	4mm industry standard

General

Power	PP3 battery, 50 hours continuous use
Front panel	Polycarbonate membrane keypad
Case	Impact resistant ABS
Operating temp	0 to 50 °C
Storage temp	-10 to 60 °C

382398

Description	Mfrs. List No.	Order Code	1+	Price Each	+
2bar Pressure Calibrator	7040	863-6001	1,707.31	--	--
20 bar Pressure Calibrator	7040/7104	878-4175	1,707.31	--	--
Pressure Pump	7090	505-8351	1,490.79	--	--

Tachometers

Laser Tachometer

A2103/LSR and A2103/LSR/K



- Multipurpose tachometer/counter with optical or contact rpm
- Linear rate/distance ranges
- Unique inverting display
- Optical range of up to 2 metres
- Time and count modes
- Data capture and very fast response modes (0.1 seconds update time)
- Supplied with contact adapter, reflective tape, mini-laser, 1 metre cable and carry case

Kit contains:

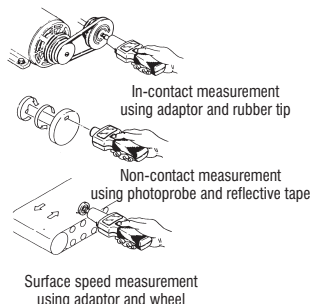
- Heavy duty contact adapters
- Type A2100/07 - smooth wheel
- Type A2100/08 - serrated wheel
- Type A2100/05 - yarn/wire speed/length adaptor
- MVLS-BR1 - MiniLaser mounting bracket

Optical range	50 - 2000mm	Capture mode	0.1 sec
Angle	± 80°	Count	0 - 99 999 revs or length in linear
Light source	1mw laser 635nm class II	Time interval	0.01 - 99 999 secs (auto)
Speed range	3 - 99 999 rpm or rps equiv	Memory hold	Holds last reading 1 minute
Resolution	Max in autorange 0.001	Signal Input	3.5mm socket for external optical sensor
Accuracy	0.05% ± 1 digit	Remote sensor	MiniLaser with 1 metre cable supplied
Update time	0.8 sec	Power	4x AAA batteries - supplied

347188					
Description	Mfrs. List No.	Order Code	1+	+	+
Tachometer	A2103/LSR	506-1751	647.74	--	--
Tachometer Kit	A2103/LSR/K	506-1763	1,057.88	--	--

Digital Tachometer 30 to 30000 rpm

VEEDER ROOT



H=155, W=63, D=30

This hand-held digital tachometer provides a lightweight, convenient means of measuring rotary or surface speeds on all types of machinery.



For non-contact measurement, the tachometer's photo-probe detects a reflective target on the rotating object to read revolutions per minute. When an in-contact measurement is required the accessory adaptor is used with a wheel for surface speed or rubber tip for shaft rotation. The unit measures from 30 to 30000 rpm, 3 to 3000 metres/minute the reading appearing instantaneously on a 5½ digit LCD and is held for two minutes.

Supplied complete with adaptor, wheel, rubber tip, reflective markers, case and two AA batteries.

FOR SUITABLE REPLACEMENT BATTERY **ORDER CODE 174-762**

FOR REPLACEMENT REFLECTIVE TAPE **ORDER CODE 148-448**

222437					
Mfrs. List No.	Order Code	1+	+	+	
HT5002	768-893	590.40	--	--	
RT1 (Pack of 3 markers)	148-448	4.53	4.42	4.42	
Standard Calibration Charge		C 5	Price Each		

Non-Contact, Optical Tachometer Testo 465



Using the Testo 465, rpm can be easily measured optically without contact. Simply attach a reflector to the object to be measured and point the visible red modulated light beam at the reflector and take a measurement.

- Low cost
- Easy one handed operation
- Max/Min Function
- Saves Mean/Max and last recorded value when switched off
- Auto-off function
- Kit includes: case, reflectors, batteries and instruction manual

Sensor: Optical with modulated light beam
Measuring range: 1 to 99999rpm
Distance from Object: Max 350mm (14 inches)
Accuracy: ±0.02% of measured value, ±1 digit
Operating Temperature: 0°C to 50°C
Storage Temperature: -20 to +70°C
Battery: 2 x 1.5v AA Cells
Auto Off: 30 seconds (Average/Max/Last value measurements saved)
Dimensions: 144 x 58 x 20mm
Weight: 145g

228173					
Mfrs. List No.	Order Code	1+	+	+	
465	321-4047	384.27	--	--	

Non-Contact and Mechanical Tachometer Testo 470



Testo 470 has the advantage of a combination of both optical and mechanical rpm measurement. Simply attach the reflector to the the object being measured and point the red modulated beam on the reflector.

By attaching an adaptor and cone or running wheel converts this instrument into a mechanical measuring device.

- Optical and mechanical measurement
- Measures rpm, speeds and length
- Easy to switch type of measurement
- Kit includes: case, adaptor, cone, running wheel, reflectors and instruction manual.
- Low battery warning

Sensor: Optical with modulated light beam, mechanically with adapter and cone or running wheel
Measuring range: 1 to 99999rpm (Optical)
1 to 19,999rpm (Mechanical)
Speed: 0.10 to 1,999 m/min
0.30 to 6500 ft/min
4 to 78,000 in/min
Lengths: 0.02 to 99,999 m
0.01 to 99,999 ft
1 to 99,999 in
Accuracy: ±0.02% of measured value, ±1 digit
(±1 digit/.02m/1.00 inch dependant on resolution)
Operating Temperature: 0°C to 50°C
Storage Temperature: -20 to +70°C
Battery: 2 x 1.5v AA Cells
Auto Off: 30 seconds (Average/Max/Last value measurements saved)
Dimensions: 175 x 60 x 28mm
Weight: 190g

228175

Mfrs. List No.	Order Code	1+	+	+
470	321-4059	541.32	--	--

Photo Tachometer



An accurate, small, hand-held, non-contact photo tachometer. Simply place a reflective marker on a rotating object, point and measure.

- Large 5 digit LCD
- One second response time at distances from 2" to 6"
- Safe and precise
- Stores last/min/max readings
- Includes 23" of reflective tape, carry case and manual
- Requires four 1.5V batteries (not included)

Range: 5 to 99999rpm
Resolution: 0.1 rpm<1000 rpm, 1 rpm≥1000rpm
Accuracy: ±(0.05% + 1 digit)

W=70, D=38.1, L=190.5

228177

Mfrs. List No.	Order Code	1+	+	+
72-6633	356-2633	297.00	--	--

Light-intensive Hand-held Stroboscope 476 Pocket Strobe™



The testo 476 Pocket Strobe™ hand-held stroboscope measures and checks rotation and vibration movements. It facilitates the measurement of very small objects or in hard-to-access places. The energy optimised switching electronics and light-intensive xenon flash lamp facilitate a high light intensity (approx. 800 lux).

- High setting accuracy and stability thanks to dynamic setting dial
- High light intensity due to energy optimised switching electronics and powerful xenon flash lamp
- Powerful rechargeable battery pack for min. 1 hour operation time over the frequency range
- Automatic trigger to synchronize flash sequence
- Memory function
- 5 digit LCD display
- Supplied in hard carry case with multi-national mains adaptor and trigger signal connector

Measuring Range: +30 to 12500 rpm
Accuracy (±1 digit): ±0.01% of mv (+30 to +12500rpm)
Resolution: 1rpm (+30 to 12500rpm)
Dimensions: 240x65x50mm
Weight: 465g

339569

Mfrs. List No.	Order Code	1+	+	+
476	501-0779	1,782.90	--	--

Stroboscope and Tachometer

Mains Powered



- Hand held low cost stroboscope-tachometer
- Powerful xenon flash
- Adjustable stroboscope flash rate
- Rotational speed is indicated on the digital display
- Mains powered
- IEC mains inlet

Stroboscopic flash rate	100-10000 flashes per minute
Tachometer speed rate	100-10000 rpm
Accuracy	±0.05% +1 digit
Sample time	1 second
Test range	Low 100-1000 FPM/RPM, High 1000-10000 FPM/RMP
Flash duration	60-100ms
Input voltage	230Vac ±10% 50HZ

222481

Order Code	1+	+	+	+
908-230	619.32	--	--	--

Hygrometers

Thermo-Hygrometer

HT-305

NEW



- Simultaneous display of temperature and humidity
- Selectable °C or °F
- Humidity displayed in % RH
- Min/max memory function for the highest and lowest values
- Supplied with battery

H=150, W=20, D=16mm Weight = 48g

A versatile, pocket sized, combined temperature and humidity meter. The slim, pen-style instrument has a pocket clip, can be hand held and has a bracket for wall mounting.

Temperature range	-10 to +50°C
Resolution	0.1°C
Accuracy	±1°C
Humidity range	20% to 90% RH
Resolution	1% RH
Accuracy	±5% RH
Power	1.5V Button Cell

382497.382996

Mfrs. List No.	Order Code	1+	+	+	+
HT305	865-5138	99.47	--	--	--

Thermo-Hygrometer



- Compact digital Hygro-Thermometer
- Fast response time
- High performance
- Max hold and data hold function
- Dual display and backlight

NEW

Humidity	Range	Accuracy
Temperature	0 to 100% RH	±3.5% RH
	-20 to 60°C	±2°C

W=45 H=255 D=34mm. Weight 200g

414908.403928

Description
Thermo-HygrometerOrder Code
100-30321+
105.79Price Each
+
--

Standard Calibration Charge S C12

Price Each
+
--

Thermohygrometer and Anemometer

Pocket Sized



The Testo 605-H1 stick thermohygrometer brings accuracy and reliability in a small package. Ideal for monitoring ambient humidity in air ducts. The Testo 405-V1 stick anemometer monitors air velocity and volume flow. It is extendable to 300mm long measurements in air ducts.

- Accurate and long-term stable
- 405-H measures air velocity and Volume Flow
- 605-H1 calculates dew-point
- Attachable to breast pocket (with clip)
- User-friendly
- Auto OFF function
- Humidity sensor not damaged by water saturation

Testo 605-H1

Measuring Range	5 to 95% RH -20°C to 70°C
Resolution	0.1RH/0.1°C
Accuracy	±3%RH/±0.5°C

Testo T405-V1

Measuring Range	0 to 10m/s at 0 to 50°C
Resolution	0.01m/s and 0.1°Cat0 to 50°C
Accuracy	±5% of m.v. ±0.10m/s (to 2m/s), ±5% of m.v. ±0.30m/s (over 2m/s) ±0.5°C

222569

Description	Mfrs. List No.	Order Code	1+	+	+
Dewpoint Hygrometer	T605-H1	311-8472	177.10	--	--
Anemometer	T405-V1	311-8484	240.59	--	--

Temperature and Humidity Meter

615 and 625



- 615 has integrated probe
- 625 has separate flexible probe
- Low cost humidity and temperature meter
- External detachable probe (hard wired to instrument)
- Hold, max, min
- Simultaneous display of temperature and humidity
- Auto switch off
- Dew point calculation
- Deg C, Deg F
- Supplied with operating instructions and battery
- Optional accessory kit (908-587) for containing multipurpose clip, probe, holder and carrying loop as shown

Measurement range	5 to 95% RH	Accuracy ±1 digit	±3% RH (5 to 95% RH)	Resolution	0.1% RH
	0 to +50°C		±0.4°C (0 to 50°C)		0.1°C

222467

Description	Mfrs. Part No.	Order Code	1+	+	+
Meter + Integrated Probe	615	856-599	472.76	--	--
Meter + Separate Probe		908-228	735.13	--	--
Accessory kit	0554.0550	908-587	47.61	--	--

Relative Humidity Meter



- Portable relative humidity and temperature meter
- Large LCD
- Detachable 1m probe
- Fast response, high accuracy
- Measurement in °C or °F, selectable
- Supplied complete with probe and battery

Range	10% to 95% RH 0 - 60°C (32 to 140°F)
Resolution	0.1% RH 0.1°C, 1°F
Accuracy	2% RH, 0.4°C, 1°F
Weight	315g
Battery	1 x 9V PP3 (supplied)
Battery life	100 hrs

222472

Order Code	1+	Price Each	+	+
710-6208	682.65	--	--	--

Temperature and Humidity Instrument
625

W=64 H=182
D=40mm. Weight
195g

An ideal entry level instrument for measurements of temperature, humidity and dewpoint. Use it to monitor hard-to-reach points in AC and heating system ducts, environmental changes in remote rooms or storage areas, anywhere you need to be two places at the same time or only have one hand free to work. The clear back-lit display can be switched between relative humidity, wet bulb, and dewpoint at the touch of a button. The temperature / humidity probe can be used 2 ways: either attached to the instrument or connected via a probe handle and cable (108-3014).

Probe	Range	Accuracy (±1 digit)	Resolution
NTC Temperature Probe	-10 to 60°C	±0.5°C	0.1°C
Capacitive Humidity Sensor	0 to 100% RH	±2.5% RH (5 - 95% RH)	0.1% RH

Wireless Probes

As well as the probe head and cable connected probe, the testo 625 can also be used with a wireless probe handle (108-3003). This offers users exceptional practicality as hindrance during measurement and potential damage to the probe cable are eliminated. The probe handle uses the probe head supplied with the standard instrument. To convert the instrument for use with the wireless handle an optional wireless module (108-3002) is also required.

Includes: humidity/temperature measuring instrument, incl. plug-in humidity probe head, battery and calibration protocol.

418875

Description	Order Code	1+	Price Each	+	+
625 Thermo Hygrometer	108-3012	522.30	--	--	--
Accessories					
Plug-In Probe Handle	108-3014	97.94	--	--	--
Wireless Module	108-3002	83.23	--	--	--
Wireless Handle	108-3003	208.94	--	--	--
Instrument and Probe Case	108-3011	55.50	--	--	--
Protective Case	108-2989	55.50	--	--	--

Hygrometers
2020R and 2080R

L=155, W=67, D=40mm

Digitron's range of hand-held relative humidity instruments has been designed for the effective and reliable measurement of controlled environments. The two models 2020RP and 2080RP both supplied with a temperature/humidity probe, offer excellent accuracy. Their ergonomic case design with advanced technology sensors combine to give instruments with excellent performance and long life.

The more advanced instrument 2080RP includes functions such as - Dewpoint calculation, separate thermocouple input and logging and can measure humidity to 1.5% RH accuracy.

Dew Point

The dew point is defined as the lower temperature to which air must be cooled in order for condensation (saturation) to occur. The dew point is dependent on the concentration of water vapour present, and therefore the relative humidity.

Ice Point

The ice point is defined as the true reading for temperatures below zero.

RH Calibration

RH calibration chamber and capsules are available to generate a known RH value to verify meter accuracy, the capsules are available for 35%, 50% and 80% RH.

Digitron

- Waterproof to IP65 (with plug connected)
- Magnified display
- Separate battery compartment
- Accuracy: 0 to 100%RH 1.5%
- -40°C to +85°C
- Back light
- Auto switch-off
- °C/°F/RH selection button
- Dew Point measurement
- Ice Point measurement (2020R only)

2080R (additional features)

- External probe option
- Max/Min averaging
- Display hold
- Logging (250 readings on demand or 50 at pre set interval)
- Data store with 4 digit data code input
- Auto range/range lock

Sensors

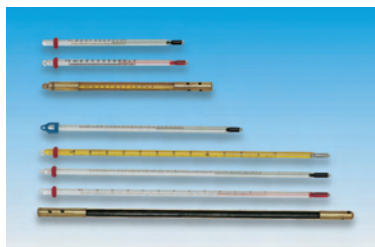
Ranges	pt100 RTD plus capacitive RH sensor, 2080R also has input for type k thermocouple
Resolution	0 to 100%RH -40°C to +85°C
Accuracy	0.1%RH, 0.1° from -199.9°C, 1° elsewhere
Accuracy (pt100 RTD)	1.5% RH at 23°C over 0 to 100%RH window ±0.3°C
Accuracy (thermocouple)	0.1% rdg ±0.3% above- 100°C, ±2 digits
Operating temperature	0.5% rdg ±0.3°C below 100°C, ±2 digits
Operating humidity	-10°C to +50°C
Battery type	0 to 100%RH (non-condensing)
Battery life	2x AA batteries
Display	Approx 150 hours
Environmental	12.7mm custom LCD
Weight	IP65
	180g

339436

Description	Mfrs. List No.	Order Code	1+	Price Each	5+	10+
Hygrometer	2020R	500-4615	875.60	--	--	--
Hygrometer + Logger	2080R	500-4627	1,103.45	--	--	--
Digilink download base	DIGILINK.	300-7510	211.14	--	--	--
Digilog software	DIGILOG.	300-6943	165.00	160.89	156.84	--
General probe	K0234D	500-4639	100.91	--	--	--
Air probe	K0334D	500-4640	107.42	--	--	--
Temp/RH probe	DRT880	500-4652	80.56	--	--	--
Rubber sleeve	BT200.	500-4354	65.10	--	--	--
Cal check vessel	PM25	500-4585	387.34	--	--	--
35% RH capsules	ER15	500-4664	299.46	--	--	--
50% RH capsules	ER35	500-4676	159.50	--	--	--
80% RH capsules	ER80	500-4690	159.50	--	--	--

Thermometers

Glass Thermometers



- Toughened stirring bulbs
- Vertical figuring
- Non-roll fitting
- Ideal for the measurement of fluids
- Brass protective cases also available

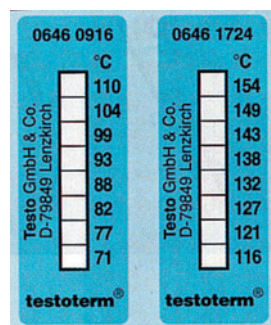
Length	Filling	Colour	Temperature Range	Mfrs. List No.	Order Code
305	Mercury	Yellow	-10°C to 50°C	41/401/0	708-1789
305	Mercury	Yellow	-10°C to 110°C	41/403/0	708-1790
305	Mercury	Yellow	-10°C to 250°C	41/410/0	708-1807
305	Mercury	Yellow	-10°C to 360°C	41/414/0	708-1819
305	Red-white Spirit	White	-10°C to 50°C	44/401/0	708-1820
305	Red-white Spirit	White	-10°C to 110°C	44/403/0	708-1832
305	Red-white Spirit	White	-10°C to 150°C	44/406/0	708-1844
155	Mercury	Yellow	-5°C to 105°C	41/430/0	708-1856
155	Red-white Spirit	White	-5°C to 105°C	44/430/0	708-1868
155	Green-white Spirit	White	-5°C to 105°C	44/430/5	708-1870
205	Green-white Spirit	White	-10°C to 110°C	44/423/5	708-1881
305	Green-white Spirit	White	-10°C to 110°C	44/403/5	708-1893
305	Protective Case	Brass	—	47/432/0	708-1900
155	Protective Case	Brass	—	47/732/0	708-1911

lin24/220986

Thermometers	Mfrs. List No.	Order Code	1+	Price Each	5+	25+	50+	+
	41/401/0	708-1789	7.65	7.23	6.96	6.72	--	--
	41/403/0	708-1790	7.65	7.23	6.96	6.72	--	--
	41/410/0	708-1807	7.53	7.14	6.90	6.69	--	--
	41/414/0	708-1819	9.21	8.64	8.28	7.80	--	--
	44/401/0	708-1820	7.05	6.66	6.48	6.27	--	--
	44/403/0	708-1832	29.02	--	--	--	--	--
	44/406/0	708-1844	56.87	--	--	--	--	--
	41/430/0	708-1856	5.82	5.49	5.31	5.13	--	--
	44/430/0	708-1868	5.70	5.37	5.19	5.01	--	--
	44/430/5	708-1870	5.10	4.83	4.68	4.53	--	--
	44/423/5	708-1881	5.25	5.21	--	--	--	--
	44/403/5	708-1893	7.50	7.05	6.75	6.51	--	--
Brass Case								
	305	708-1900	18.06	17.01	16.38	15.81	--	--
	155	708-1911	15.00	14.16	13.65	13.20	--	--

Prices are in Singapore Dollars and exclusive of GST.
Due to the volatile nature of certain products,
prices are subject to change without notice.

Thermometer Foils



These self-adhesive thermometer foils are ideal for situations in which ordinary thermometers cannot be used, such as small or moving parts. Once the temperature sensitive elements react there is a colour change (to black) – this is permanent and is irreversible.

- Available in two styles, clock or strip
- Supplied in booklets of 10



Measuring Range as per individual items

Storage Up to 2 years (longer if stored in a fridge)
Maximum storage temperature 25°C

Accuracy $\pm 1^\circ\text{C}$ of temperature rating

339938.268073

Description	Order Code	Price Each	
Strip Style		1+	5+
Range: $+37^\circ\text{C}$ to $+65^\circ\text{C}$	499-0365	47.52	44.36
Range: $+71^\circ\text{C}$ to $+110^\circ\text{C}$	499-0377	47.52	44.36
Range: $+116^\circ\text{C}$ to $+154^\circ\text{C}$	499-0389	47.52	44.36
Range: $+160^\circ\text{C}$ to $+199^\circ\text{C}$	499-0390	47.52	44.36
Range: $+204^\circ\text{C}$ to $+260^\circ\text{C}$	499-0407	47.52	43.80
Range: $+249^\circ\text{C}$ to $+280^\circ\text{C}$	499-0419	47.52	42.54
Clock Style			
Range: $+40^\circ\text{C}$ to $+54^\circ\text{C}$	499-0420	57.61	49.57
Range: $+60^\circ\text{C}$ to $+82^\circ\text{C}$	499-0432	57.61	49.57
Range: $+88^\circ\text{C}$ to $+110^\circ\text{C}$	499-0444	57.61	49.57
Range: $+116^\circ\text{C}$ to $+138^\circ\text{C}$	499-0456	57.61	49.57
Range: $+143^\circ\text{C}$ to $+166^\circ\text{C}$	499-0468	57.61	49.57
Range: $+171^\circ\text{C}$ to $+193^\circ\text{C}$	499-0470	57.61	49.57
Range: $+199^\circ\text{C}$ to $+224^\circ\text{C}$	499-0481	57.61	49.57
Range: $+232^\circ\text{C}$ to $+260^\circ\text{C}$	499-0493	57.61	49.57

Wall Thermometer

General Purpose

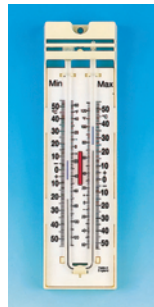


- General purpose wall thermometer
- Red spirit filled in moulded plastic case
- Temperature range of -20°C to $+50^\circ\text{C}$

224525

Order Code	1+	5+	Price Each		+
722-6410	8.64	8.22	7.80	7.05	--

'Quick Set' Max-Min. Thermometer



- Wall mounted max-min thermometer
- Retains both highest and lowest readings
- Easily resettable via push-button
- No separate magnet needed
- Temperature range of -30°C to $+50^\circ\text{C}$

224526.410622

Order Code	1+	5+	Price Each		+
722-6342	29.97	28.47	27.06	24.42	--



Pocket Test Thermometer

Heavy Duty



- Red spirit filled thermometer
- Supplied with a heavy duty protective case with pocket clip
- Temperature range of -10°C to $+110^\circ\text{C}$

224532

Order Code	1+	5+	Price Each		+
722-6408	41.97	39.87	37.89	34.69	--

Digital Thermometers

106-T1, 106-T2



A range of accurate, yet affordable thermometers suitable for checking core temperatures within the food industry under the HACCP guidelines, or can be used as a low cost, general-purpose thermometer. The patented topsafe protects the instrument from dirt, impact and splash-water, and the belt/wall holder facilitates easy handling.

- Quick and accurate core temperature measurement
- Optical limit value monitoring
- Audible alarm (Testo 106-T2 only)
- Wide measuring range -50°C to $+230^\circ\text{C}$

Measuring range -50 to $+230^\circ\text{C}$
Resolution 0.1°C
Accuracy $\pm 0.5^\circ\text{C}$ (-30 to $+99^\circ\text{C}$), $\pm 1^\circ\text{C}$ or $\pm 1\%$ (remaining range)

Battery type
Testo 106-T1 2 x Li cell
Testo 106-T2 2 x AAA
Battery life Approx. 250hrs
Probe tip 2.2mm (reinforced to 3mm after 15mm)
Warranty 1 year

228179

Mfrs. List No.	Order Code	1+	Price Each		+
106-T1	355-6979	101.84	--	--	--
106-T2	355-6980	127.30	--	--	--

Digital Thermometer

2046T



An attractive, hand-held thermometer giving a reliable and cost effective solution to contact temperature measurements in a variety of applications including the food hygiene market. Thermistor probe based. Exceeds the recommendations in the Food Hygiene Regulations.

- Attractive, robust case design with strengthened display and re-enforced keypad
- Large LCD with backlight
- Suitable for use with thermistor type probes
- Autoranging display
- Display hold
- Self calibrated to zero to eliminate inaccurate readings caused by long-term or thermal drift
- Selectable Auto switch-off
- Low battery indication
- 500 hours battery life (typical)
- Splashproof IP65 rated

Note: The thermometer is not supplied with a probe, see below for manufacturers recommended options.

Measurement Range -40°C to $+120^\circ\text{C}$ Power 1x 9V PP3 type battery – not supplied
Best Accuracy $\pm 0.3\%$

339932.268050

Description	Mfrs. List No.	Order Code	1+	Price Each		+
Thermometer	2046T.	500-4275	224.60	--	--	--
Probe, General Purpose	H0234	877-1278	75.09	--	--	--
Probe, Air	H0334	877-1286	88.15	--	--	--
Probe, Between Pack	H0800	877-1294	94.66	--	--	--

Food Thermometer
926**NEW**W=64 H=182 D=40mm.
Weight 171g

- Wide range of rugged corded probes for all areas of food measurement
- Auto Hold with user-settable times (5, 10, 15, 20 sec)
- On-site documentation with the optional Testo printer, on-site temperature recording
- 2 years warranty

A fast, accurate thermometer - designed for use throughout the food industry. A wide range of corded probes makes the instrument ideal for many applications in kitchens, restaurants, hotels, food production and processing. In addition, the instrument can be upgraded for use with a range of wireless probes, offering exceptional ease of use. Maximum and minimum values are available at the touch of a button. With the optional Testo printer, on-site temperature documentation is quick and simple. Plus the optional TopSafe case ensures protection against water, dirt, and impact.

Probe Type	Range	Accuracy	Resolution
Type T (Cu-CuNi)	-50 to 400°C	±0.3°C (-20 to 70°C) ±(0.7°C + 0.5% of mv) (remaining range)	0.1°C/1°C (from 200°C)

Battery Life Upto 200 hours

Probes:

In order to meet a wide spectrum of measuring requirements, Testo provides a large range of professional probes for food, oven and refrigerator temperature measurements.

Description	Range	Accuracy	t ₉₉	Order Code
Type T Air Probe	-50 to 350°C	±0.2°C (-20 to 70°C) else Class 1	25s	108-3027
Type T Immersion Probe	-50 to 350°C	±0.2°C (-20 to 70°C) else Class 1	7s	108-3029
Stainless Steel Type T Food Probe	-50 to 350°C	±0.2°C (-20 to 70°C) else Class 1	7 s	892-830
Type T Oven Probe				892-841

Wireless Probes and Accessories

As well as cable connected probes, the thermometer can also be used with a range of wireless probes. Wireless probes offer users exceptional practicality as hindrance during measurement and potential damage to the probe cable are eliminated. To convert the thermometer for use with the wireless probes an optional wireless module (108-3002) is required. This can be used with the highly versatile universal wireless handle (108-3003) with exchangeable surface or immersion / penetration probe heads (e.g. 108-3025).

Description	Range	Accuracy	t ₉₉	Order Code
Type K Probe Head	-50 to 350°C	Class 2	10s	108-3025
Radio Frequency	869.85 MHz			

418967

Description	Order Code	1+	5+	10+
Food Thermometer	108-3026	225.25	--	--
Probes				
Type T Air Probe	108-3027	146.90	--	--
Type T Immersion Probe	108-3029	109.37	--	--
Type T Food Probe	892-830	304.67	297.93	290.27
Type T Oven Probe	892-841	94.72	--	--
Wireless Probes & Accessories				
Wireless Module	108-3002	83.23	--	--
Wireless Handle	108-3003	208.94	--	--
Type K Probe Head	108-3025	106.08	--	--
Other Accessories				
Instrument and Probe Case	108-3011	55.50	--	--
Protective Case	108-3032	55.50	--	--
IRDA Printer	836-9240	532.09	491.18	456.09
Spare Printer Rolls (6)	444-6537	37.11	--	--

**RoHS Directive**

Worried about the part number lottery?
Count on us for traceability
-visit www.rohs.info

**Don't risk anyone
else for RoHS**

Digital Thermometers
Check Temp

- Low cost high accuracy thermometer
- Fast acting stainless steel probe
- Inbuilt calibration test

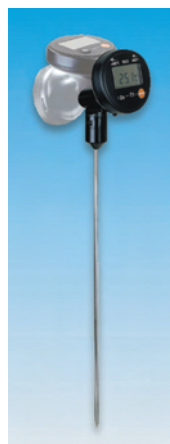
Check temp: Stick meter with pointed tip probe

Check temp 1: With pointed tip probe and 1m cable

Range	-50 to +150°C
Resolution	0.1°C
Accuracy	±0.3°C (-20 to +90°C) ±0.5°C (-50 to +20°C) ±0.5°C (+91 to +150°C)
Battery-life	1 x 1.4 button cell/3000 hrs continuous
Weight	80g

222470

Mfrs. List No.	Order Code	1+	+	+
CHECKTEMP 1	710-5769	127.37	--	--
CHECKTEMP	710-5757	74.93	--	--

Mini Thermometers
T905 Series

Testo 905 series is one of the fastest mini thermometers available with a wide measuring range from -50 to +350°C short-term (1-2 minutes) up to +500°C. The sensor, a type K thermocouple, is ideal for super-quick measured results

- Quick Measurement
- Professional industrial probe (type K thermocouple)
- High temperature measurement, short-term to +500°C
- Small in size and low cost
- Testo T905-T1 immersion/penetration thermometer
- Testo T905-T2 surface thermometer
- Auto OFF function

Applications:

- Measurement in air conditioning systems
- Monitoring in the food sector
- Laboratories
- Transport Industry

Measuring range	-50 to +350°C short-term to 500°C	Response time T99	Approx. 10s (in water)
Parameters	°C/°F resolution: 0.1°C accuracy: ±1°C (to +100°C) ±1% of M.V. (rem. range)	Battery type	3V round cell (CR2032)
Ambient temp.	0°C to +40°C	Battery lifetime	Approx. 150 hrs.
Storage temp.	-20°C to +70°C	Probe stem	3mm/length 200mm
		Auto off	Approx. 10 Minutes
		Warranty	1 Year

222566

Mfrs. List No.	Order Code	1+	+	+
T905-T1	311-8459	126.98	--	--
T905-T2	311-8460	177.10	--	--

Surface Thermometer

- Low cost
- Direct temperature reading
- Wide temperature range
- Surface thermometer with a widened measuring tip
- Applications include: servicing electrical products, measurements on motors, bearings and metal processing
- Battery included

H=140, W=220, D=230

Temperature range	-50 to +250°C
Accuracy	±1°C (-10°C to +99°C), ±2°C (-19.9°C to +150°C)
Resolution	0.1°C (-19.9°C to +150°C), 1.0°C (remaining range)

222484

Order Code	1+	Price Each	+
892-853	63.48	--	--

Prices are in Singapore Dollars and exclusive of GST.
Due to the volatile nature of certain products,
prices are subject to change without notice.

Digital Thermometers

72-2060/72-2065

TENMA®



Two rugged, K type single and dual input thermometers, ideal for field or bench use - includes protective holster.

- 3½ digit LCD
- Selectable °C/°F, 1° resolution
- Front panel offset adjustment
- Dual thermocouple input (72-2065)
- Displays T1 and T2 and T1-T2 in differential mode (72-2065)
- Data hold
- Maximum record
- Includes holster, 9V battery, owner manual, thermocouple probe (72-2065 includes two thermocouple probes)

Temperature range -50 to 1300°C -58 to 2000
Accuracy -15°C to 0°C: ±2°C, 0°C to 1000°C: ±(0.3% + 1°C)
Dimensions 69.85 (W) x 146.05 (H) x 38.14 (D)

228184

Description	Mfrs. List No.	Order Code	1+	+	+
Single Channel	72-2060	342-1557	147.00	--	--
Dual Channel	72-2065	342-1569	168.00	--	--

Digital Thermometers

Fluke 51II/Fluke 52 II

DURACELL
Ultra M3 AA
Alkaline Batteries 10
Order Code 3175-0750

FLUKE®



51 and 52 Series II:

- Large backlit dual display shows any combination of T1, T2 (52 only), T1-T2 (52 only) plus MIN, MAX, or AVG
- Relative time clock on MIN, MAX, and AVG provides a time reference for major events
- Electronic Offset function allows compensation of thermocouple errors to maximise overall accuracy
- Measures J, K, T and E-types of thermocouples
- Readout in °C, °F, or Kelvin (K)
- Sleep mode increases battery life

LATEST PRICING

- Battery door allows easy battery replacement without breaking the calibration seal
- Optional Tool Pak accessory for hanging your thermometer (302-9578)

The new Fluke 50 Series II contact thermometers offer fast response and laboratory accuracy (0.05% + 0.3°C) in a rugged handheld test tool

Temperature range

J-type Thermocouples -210°C to 1200°C (-346°F to 2192°F)
K-type Thermocouples -200°C to 1372°C (-328°F to 2501°F)
T-type Thermocouples -250°C to 400°C (-418°F to 752°F)
E-type Thermocouples -150°C to 1000°C (-238°F to 1832°F)

Temperature accuracy

Above -100°C (-148°F) ± [0.05% + 0.3°C (0.5°F)]
J, K, T, E and N-type** J, K, E ± [0.20% + 0.3°C (0.5°F)]
Below -100°C (-148°F) T-type ± [0.50% + 0.3°C (0.5°F)]

Battery life 1000 hours typical, AA
Weight 400g

Prices where indicated by a are subject to change. Please call your local sales office or visit www.farnellone.com for the latest prices.

222579

Mfrs. List No.	Order Code	1+	+	+
FLUKE 51 SERIES II	318-3361			
FLUKE 52 SERIES II	318-3373			
TPAK	302-9578			
C101 Carry Case	947-9783			
Standard Calibration				

Digital Thermometers

Fluke 53/54 Series II

FLUKE®



LATEST PRICING

The new Fluke 53/54 Series II contact thermometers offer fast response and laboratory accuracy (0.05% + 0.3°C) in a rugged handheld test tool.

- Large backlit dual display shows any combination of T1, T2, T1-T2, plus MIN, Max or AVG
- Relative time clock on MIN, MAX and AVG provides a time reference for major events
- Electronic Offset function allows compensation of thermocouple error to maximize overall accuracy
- Measures J, K, T and E-types of thermocouples
- Readout in °C, °F or Kelvin (K)
- Sleep mode increases battery life
- Battery door allows easy battery replacement without breaking the calibration seal
- Optional Tool Pak accessory for hanging your thermometer (302-9578)
- Data Logging up to 500 points of data with user adjustable recording interval
- Additional thermocouple types R, S and N (for a total of 7 different types)
- Real time clock captures the exact time of day when events occur
- Recall function allows logged data to be easily reviewed on the meter display
- IR communication port allows data to be exported to optional Fluke View Temperature PC software

Fluke View Forms Software

Here's a fast and easy way to document, store and analyse temperature measurements.

- Produce professional-looking documents
- In-depth analysis with records, charts and graphs
- Standard and customisable forms
- Export data to the measurement analysis programs
- Infra-red interface between thermometer and PC makes data transfer fast and easy
- Optional IR adaptor and cable for PCs without an IR port

Thermocouple types	K, J, T, E, N, R, S	Min./Max./Avg recording	Yes
Number of inputs	53-II (Single), 54-II (Dual)	Compatible with optional toolpack	Yes
Time stamp	Time of day	Differential (T1-T2) readout	54-II only
Splash/dust resistant	Yes	Data logging up to 500 points	Yes
Dual display with backlight	Yes	IR data port for interface to PC	Yes

Temperature Range

J-type Thermocouples -210°C to 1200°C (-346°F to 2192°F)
K-type Thermocouples -200°C to 1372°C (-328°F to 2501°F)
T-type Thermocouples -250°C to 400°C (-418°F to 752°F)
E-type Thermocouples -150°C to 1000°C (-238°F to 1832°F)
N-type Thermocouples -200°C to 1300°C (-328°F to 2372°F)
R and S-type Thermocouples 0°C to 1767°C (32°F to 3212°F)

Temperature Accuracy

Above -100°C (-148°F):
J, K, T, E and N-type ± [0.05% + 0.3°C (0.5°F)]
R and S-type ± [0.05% + 0.4°C (0.7°F)]
Below -100°C (-148°F):
J, K, E and N-types ± [0.20% + 0.3°C (0.5°F)]
T-type ± [0.50% + 0.3°C (0.5°F)]

Battery 1000 hours typical, AA
Weight 400g
Warranty 3 years

Prices where indicated by a are subject to change. Please call your local sales office or visit www.farnellone.com for the latest prices.

220406

Mfrs. List No.	Order Code	1+	+	+
FLUKE 53 SERIES II	318-3385			
FLUKE 54 SERIES II	318-3397			
FlukeView Forms Software SC1	418-6060			
Meter Hanging Kit TPAK80-4	302-9578			
C101 Carry Case	947-9783			

Temperature Probes

FLUKE®



A range of thermocouple probes designed for use with Fluke test meters for contact temperature measurements. SureGrip® accessories are designed to improve steadiness in slippery hands. Rubber overmoulded surfaces and finger-hugging curves give the user a comfortable, reliable grip on the accessory so they can focus on making an accurate measurement.

80PK-22 SureGrip™ Immersion Probe

- Type-K thermocouple for use in liquids and gels
- Measurement range: -40°C to 1090°C

80PK-24 SureGrip™ Air Probe

- Type-K thermocouple for use in air and non-caustic gas measurements
- Bead protected by perforated baffle
- Measurement range: -40°C to 816°C

80PK-25 SureGrip™ Piercing Probe

- Type-K thermocouple suitable for food industry, liquids and gels
- Measurement range: -40°C to 350°C
- 80PT-25 SureGrip® Piercing Probe**
- 80PT-25: operates with T-type thermometers
- Measurement range: -196°C to 350°C
- 80PK-26 SureGrip® General Purpose Probe**
- Type-K thermocouple with tapered tip for use in air, non-caustic gas and surface applications
- Measurement range: -40°C to 816°C
- 80PK-27 SureGrip® Industrial Surface Probe**
- Type-K thermocouple for surfaces in rugged environment
- Durable ribbon sensor
- Measurement range: 127°C to 600°C

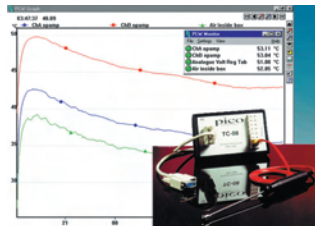
Prices where indicated by a  are subject to change. Please call your local sales office or visit www.farnellone.com for the latest prices.

339464

Mfrs. List No.	Order Code	1 +	Price Each	+
80PK-22	491-7169			
80PK-24	491-7170			
80PK-25	491-7182			
80PT-25	491-7194			
80PK-26	491-7200			
80PK-27	491-7212			

PC Based Thermocouple Interface TC-08

pico
Technology Limited



The TC-08 is an 8 channel thermocouple to PC interface. It can measure the full range of temperatures from -27°C to +1800°C and works with all popular thermocouple types (B,E,J,K,N,R,S,T). There is also a 60mV range which can be used for other types of sensor. The TC-08 is very easy to use - just plug into the serial port of your computer, connect a thermocouple and you are ready to measure temperatures.

Thermo type	Overall range °C	0.1°C resolution	0.025°C resolution	Thermo type	Overall range °C	0.1°C resolution	0.025°C resolution
B	100-1800	1030-1800	—	N	-260-1300	-210-1300	340-1260
E	-270-790	-240-790	-140-790	R	-50-1760	-333-1760	—
J	-210-1050	-210-1050	-120-1050	S	-50-1760	250-1760	—
K	-270-1300	-220-1300	-320-1150	T	-270-400	-230-400	—

No. of channels: 8
Accuracy: ±0.5°C plus 0.3% of reading
Overload protection: ±10V
Conversion time: 1500ms for calibration + 800ms per active channel
Input connectors: Miniature thermocouple
Output connectors: D9 female to serial port (Cable and D25 adaptor included)

Supplied software: PicoLog: DOS and Windows (3.1x, 95/98, NT) Software drivers, Excel macro

228197

Mfrs. List No.	Order Code	1 +	Price Each	+
TC-08	318-0797	627.21	—	—

Hand-Held Thermometers

HANNA
instruments



Two hand-held, compact microprocessor-controlled thermometers for use in the laboratory, field or for industrial use. Ergonomically designed with a rubber keypad to resist accidental splashes, moulded side grips, a wrist strap and optional yellow outer protective holster to protect the meter if dropped onto a hard surface.

HI-93530: Industry standard K-type thermocouple thermometer with 0.1° resolution from -200°C to 999.9°C and full range to 1370°C. Other benefits include a HOLD button to freeze the current reading on the display and readout in either °C or °F. Supplied with battery.

HI-93510: High accuracy thermistor thermometer with a range -50°C to +150°C and display to 0.1°C. In addition to a HOLD button and readout in °C or °F, HI-93510 also has high and low memory recall to check temperature extremes at any time. Easy to use and supplied with a general purpose thermistor probe with plug and 1m cable, battery included.

- Microprocessor controlled advanced thermometers
- HI-93530 K-type thermocouple meter (supplied without probe)
- HI-93510 high accuracy thermistor meter (supplied complete with probe)
- Compact design with side grips and wrist strap

	HI-93510	HI-93530
Range	-50 to +150°C	-58 to 199.9°F 200 to 302°F
Resolution	0.1°C	0.1°F/1°F
Accuracy	±0.4°C (-20 to 80°C) 0.7% F.S. outside above ranges in brackets	±0.8°F (-4 to +176°F) 0.7% F.S. outside above ranges in brackets
Battery Life/Type	1 x 9V approx. 500 hours of continuous use : auto shut-off after 7 minutes	1 x 9V approx. 500 hours of continuous use : auto shut-off after 7 minutes
Environment	0°C to +50°C (32 to +122°F): RH 95%	0°C to +50°C (32 to +122°F): RH 95%
Dimensions	143 x 80 x 38mm	143 x 80 x 38mm
Weight	320 grams	320 grams

224536

Mfrs. List No.	Order Code	1 +	Price Each	+
HI-93510 Thermistor thermometer	710-6063	323.19	—	—
HI-93530 K-type thermometer (non-food)	710-6075	323.84	—	—
Rubber Boot accessory				
HI-935B00T/ K-type thermometer	329-8905	61.66	—	—

Digital Thermometer 110

testo



W=64 H=182 D=40mm.
Weight 171g



An affordable thermometer designed to provide accurate measurements for many general temperature applications. The instrument's robust engineering makes it ideal for refrigerated storage rooms, freezers/coolers, storage cabinets, and general outdoor use. In addition, the optional TopSafe protective case guards against damage from water, impact and dirt. Minimum and maximum values are shown on a clear, 2-line backlit display for easy reading. A wide choice of probes for a range of applications are available. In addition, the testo 110 can be upgraded for use with a wireless temperature probe.

NEW

Probe Type	Range	Accuracy	Resolution
NTC	-50 to 150°C	±0.2°C (-0 to 80°C) else ±0.3°C	0.1°C
NTC High Temperature Probe	0 to 275°C	0.2°C (0 to 80°C) else 0.3°C	0.1°C
Battery Life	Upto 200 hours		

- User-adjustable audible alarm limits aid in temperature control
- User-adjustable measuring rate (wireless mode) helps save battery power
- On-site documentation with the optional Testo printer, for easy temperature recording
- 2 years warranty

Probes:

In order to meet a wide spectrum of measuring requirements, Testo provides a large range of air, immersion, surface and penetration probes.

Description	Range	Accuracy	t ₉₉	Order Code
NTC Air Probe	-50 to 150°C	±0.2°C (-25 to 74.9°C)	60s	108-3001
NTC Surface Probe	-50 to 150°C	±0.2°C (-25 to 74.9°C)	35s	108-3805
NTC Frozen Food Probe	-50 to 140°C	±0.2°C (-25 to 74.9°C)	20s	108-3807
NTC Immersion Probe	-50 to 150°C	±0.2°C (-25 to 74.9°C)	10s	108-3852

Wireless Probes and Accessories

As well as cable connected probes, the thermometer can also be used with a range of wireless probes (eg 108-3024). Wireless probes offer users exceptional practicality as hindrance during measurement and potential damage to the probe cable are eliminated. To convert the thermometer for use with the wireless probes an optional wireless module (108-3002) is required.

Description	Range	Accuracy	t ₉₉	Order Code
Wireless Immersion Probe	-50 to 275°C	±0.8°C (-50 to 200°C)	12s	108-3024
Radio Frequency	869.85 MHz			

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Description	Order Code	1 +	Price Each	5 +
Digital Thermometer	108-3804	210.57	—	—
Probes				
NTC Air Probe	108-3001	152.46	—	—
NTC Surface Probe	108-3805	169.75	—	—
NTC Frozen Food Probe	108-3807	359.09	—	—
NTC Immersion Probe	108-3852	148.53	—	—
Wireless Probes & Accessories				
Wireless Module	108-3002	83.23	—	—
Wireless Immersion Probe	108-3024	212.19	—	—

Description	Order Code	Price Each		
		1+	3+	5+
Other Accessories				
Instrument and Probe Case	108-3011	55.50	--	--
Protective Case	108-3032	55.50	--	--
IRDA Printer	836-9240	532.09	491.18	456.09
Spare Printer Rolls (6)	444-6537	37.11	--	--

Digital Thermometers

922 and 925



W=64 H=182 D=40mm. Weight 171g

Testo 922: A differential thermometer with 2-line display for easy temperature comparisons. An optional wireless temperature probe makes remote temperature monitoring easy. Differential temperatures are easily displayed, while an audible alarm sounds if user-adjustable limit values are exceeded. Current measurements and Max-Min values can be printed on-site with the optional Testo printer. Timed-interval printing (eg. once per minute) is possible and controlled from the testo 922.

- 2 channel measuring instrument with optional wireless probe
- Displays differential temperature
- Cyclical printing of readings, e.g. once a minute

Testo 925: 925 Type K thermocouple thermometer uses both corded and optional wireless probes. A user-adjustable audible alarm sounds if set limits are exceeded. Measurements, as well as Max-Min values, with time/date can be printed on-site with the optional Testo printer.

- 1 channel measuring instrument with optional wireless probe
- Audible alarm sounds if limit value is exceeded
- On site printout on Testo printer
- Continuous display of max/min values
- Hold button to freeze reading
- Backlit display
- 2 years warranty

Probe Type	Range	Accuracy	Resolution
Type K (NiCr-Ni)	-50 to +1000°C	±(0.5°C + 0.3% of mv) (-40 to 900°C) ±(0.7°C + 0.5% of mv) (remaining range)	0.1°C/1°C (from 200°C)
Battery Life	Upto 200 hours		

Probes:

In order to meet a wide spectrum of measuring requirements, Testo provides a large range of professional probes for immersion, surface and air measurements.

Description	Range	Accuracy	t ₉₉	Order Code
Type K Immersion Probe	-60 to 400°C	Class 2	12s	108-3000
Type K Fine Wire Probe	-50 to 400°C	Class 2	5s	561-642
Type K Air Probe	-60 to 400°C	Class 2	25s	108-3022
Type K Surface Probe	-60 to 300°C	Class 2	3s	108-3023

Wireless Probes and Accessories

As well as cable connected probes, the thermometers can also be used with a range of wireless probes. Wireless probes offer users exceptional practicality as hindrance during measurement and potential damage to the probe cable are eliminated. To convert the thermometer for use with the wireless probes an optional wireless module (108-3002) is required. This can be used with either a wireless probe (108-3024) or with the highly versatile universal wireless handle (108-3003) with exchangeable surface or immersion / penetration probe heads (e.g. 108-3025). In addition, the universal wireless handle comes with an adapter for temperature probes with thermocouple plugs. Any thermocouple probe (Type K) with a TC plug can therefore be attached to the universal radio handle and used for wireless measurement.

Description	Range	Accuracy	t ₉₉	Order Code
Wireless Immersion Probe	-50 to 275°C	±0.8°C (-50 to 200°C)	12s	108-3024
Type K Probe Head	-50 to 350°C	Class 2	10s	108-3025
Radio Frequency	869.85 MHz			

418965, 429028

Description	Order Code	Price Each		
		1+	3+	5+
922 Dual Channel Thermometer	108-3019	306.85	--	--
925 Digital Thermometer	108-3020	199.14	--	--
Probes				
Type K Immersion Probe	108-3000	86.19	--	--
Type K Fine Wire Probe	561-642	38.42	--	--
Type K Air Probe	108-3022	120.79	--	--
Type K Surface Probe	108-3023	248.10	--	--
Wireless Probes & Accessories				
Wireless Module	108-3002	83.23	--	--
Wireless Immersion Probe	108-3024	212.19	--	--
Wireless Handle	108-3003	208.94	--	--
Type K Probe Head	108-3025	106.08	--	--

		Price Each		
Description	Order Code	1+	3+	5+
Other Accessories				
Instrument and Probe Case	108-3011	55.50	--	--
Protective Case	108-3021	55.50	--	--
Protective Case	108-2989	55.50	--	--
IRDA Printer	836-9240	532.09	491.18	456.09
Spare Printer Rolls (6)	444-6537	37.11	--	--
		Price Each		
Standard Calibration Charge	\$ 			

Advanced Multi-channel Thermometer

735-2



W=74 H=220 D=46mm. Weight 428g

A highly versatile multi-channel temperature measuring instrument. The instrument has the capability to register and display up to 6 temperature probes: 3 wireless probes, 2 fast thermocouple probes (Type K / T) and one high precision PT100 probe. The testo 735 has a large measuring range - from -200 to +1350 °C (dependent on probe used). Two freely selectable temperature values are shown in the easy to read backlit display. The differential temperature between any temperature values can be calculated. The display of minimum or maximum values is possible for all temperature channels.

The testo 735 is designed for ease of use. The easy to follow menus allow users to take key measurements including time and point measurement, differential temperature measurement, max/min value display and the fixing of measurement values. The testo 735-2 offers 3 User Profiles (Standard, Route and Longterm) which can be tailored to suit specific applications. For example, using the Route function, users can easily select measurement locations and the Longterm function provides direct access to the number of measurements and the measurement rate.

The testo 735 is a robust and reliable measuring instrument with the protection class IP 54. The testo 735 has been designed to provide an instrument that is both easy to use and of strong construction. For example, the housing material offers built-in protection against knocks and jars and the large illuminated display is set back in the housing to offer protection. To assist everyday use the instrument features a carrying strap and magnets on the back panel for attachment at the measuring location.

Features:

- Connection of 3 attachable probes and 3 radio probes
- Data printing on testo report printer
- Audible alarm when limit values are exceeded
- System accuracy up to 0.05°C
- Display of Delta T, min/max and mean values
- Instrument store for 10,000 readings
- PC-Software for filing and documenting measurement data
- Storage of single measurements or measurement series by location
- Quick access to the most important functions via user profiles

Applications:

- Simultaneous measurement of several temperatures, e.g. in a refrigeration system
- Fast temperature measurement on surfaces
- Precise temperature measurements

Probes:

In order to meet a wide spectrum of measuring requirements, Testo provides a large range of professional probes. The range includes a choice of PT100 and thermocouple (Type K / T) probes for immersion, surface and air measurements. Thermocouple probes offer users rapid measurements and a wide measuring range. The PT100 immersion/penetration probe offers high accuracy (up to 0.05°C, resolution of 0.001°C), ideally suited for use as a working standard in quality assurance, laboratories and calibration services.

Description	Range	Accuracy	t ₉₉	Order Code
Type K Immersion Probe	-60 to 400°C	Class 2	12s	108-3000
Type K Fine Wire Probe	-50 to 400°C	Class 2	5s	561-642
Type K Air Probe	-60 to 400°C	Class 2	25s	108-3022
Type K Surface Probe	-60 to 300°C	Class 2	3s	108-3023
PT100 Immersion Probe	-50 to 400°C	Class A	12s	108-3034

Wireless Probes and Accessories

As well as cable connected probes, the testo 735 can also be used with a range of wireless probes. Wireless probes offer users exceptional practicality as hindrance during measurement and potential damage to the probe cable are eliminated. To convert the instrument for use with the wireless probes an optional wireless module (108-3002) is required. This can be used with either a wireless probe (108-3024) or with the highly versatile universal wireless handle (108-3003) with exchangeable surface or immersion / penetration probe heads (e.g. 108-3025). In addition, the universal wireless handle comes with an adapter for temperature probes with thermocouple plugs. Any thermocouple probe (Type K) with a TC plug can therefore be attached to the universal radio handle and used for wireless measurement.

Description	Range	Accuracy	t ₉₉	Order Code
Wireless Immersion Probe	-50 to 275°C	±0.8°C (-50 to 200°C)	12s	108-3024
Type K Probe Head	-50 to 350°C	Class 2	10s	108-3025
Radio Frequency	869.85 MHz			

Documentation

The testo 735 offers users 2 convenient documentation options; print out on-site or analysis and documentation on a PC. The testo printer (836-9240) offers a convenient and easy to use option for on-site documentation. The testo 735 transmits the data to the printer wirelessly via an infrared interface. Date, time and measured data are all documented on the printout. The testo 735-2 offers users the option to store both single measurements and measurement series (up to 10,000 measurement values). Data can then be analysed and documented on PC in either tables or graphs, using Testo's ComSoft software.

418940.429027

Description	Order Code	1+	3+	5+
735-2 Multi-channel Thermometer	108-3031	868.34	--	--
Probes				
Type K Immersion Probe	108-3000	86.19	--	--
Type K Fine Wire Probe	561-642	38.42	--	--
Type K Air Probe	108-3022	120.79	--	--
Type K Surface Probe	108-3023	248.10	--	--
PT100 Immersion Probe	108-3034	179.55	--	--
Wireless Probes & Accessories				
Wireless Module	108-3002	83.23	--	--
Wireless Immersion Probe	108-3024	212.19	--	--
Wireless Handle	108-3003	208.94	--	--
Type K Probe Head	108-3025	106.08	--	--
Other Accessories				
Service Case	108-3006	179.55	--	--
IRDA Printer	836-9240	532.09	491.18	456.09
Spare Printer Rolls (6)	444-6537	37.11	--	--

Hygrometer 608



- Standard Testo 608-H1 hygrometer for continuous measurement of humidity, temperature and dew point
- The Testo 608-H2 alarm hygrometer with accuracy of $\pm 2\%$ RH and LED alarm function reliably warns you if limits have been exceeded
- Monitors ambient conditions and dew point in garden centres, storage and clean rooms, museums and laboratories
- Stand alone or attachable

- With td dew point calculation and max/min display
- Humidity sensor not affected by water
- Testo 608-H2 comes with LED alarm to warns if limits are exceeded

	608-H1	608-H2
Storage temperature	-40°C to +70°C	
Battery type	9V block battery	
Battery life	8736h	
Measuring rate	18s	
Weight	168g	
Warranty	1 year	
Measuring range	+10 to +95% RH 0 to +50°C -20 to +50°C	+2 to 98% RH -10 to +70°C -40 to +70°C
Accuracy	$\pm 3\%$ RH (+10 to +95% RH) ± 1 digit	$\pm 2\%$ RH (+2 to +98% RH) ± 1 digit
Resolution	0.1% RH (0 to +100% RH)	0.1% RH (0 to +100% RH)
Probe type	NTC	NTC
Accuracy	$\pm 0.5^\circ\text{C}$ (at 25°C) ± 1 digit	$\pm 0.5^\circ\text{C}$ (at 25°C) ± 1 digit
Resolution	0.1°C (0 to +50°C)	0.1°C (-10 to +70°C)
Operating temperature	0 to +50°C	-10 to +70°C

234384

Mfrs. List No.	Order Code	1+	+	+
608-H1	369-5797	126.92	--	--
608-H2	369-5803	224.91	--	--



RoHS Directive



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Thermometers - Non Contact (IR)

Pocket Infrared Thermometer



A pocket size infrared thermometer that can check all types of heating ventilation and air-conditioning (HVAC) systems. Monitor performance of appliances such as refrigerators, dishwashers, freezers and ovens to ensure proper cooking, grilling and storage temperatures.

NEW

- 6:1 distance to spot size ratio
- Easy to use
- Large LCD display
- Backlit display
- User selectable °C or °F
- Automatic data hold
- Auto power off
- Low battery indication

H=94, W=56, D=28mm
Weight = 76g

Range	-30 to +270°C (-22 to +518°F)	Optical resolution	6:1 distance to spot size ratio
Basic accuracy	$\pm 2\%$ of reading	Emissivity	0.95 fixed
Resolution	1°F/°C	Power	2x 1.5V AAA batteries (supplied)
Response time	< 1 second		

381015.345256

Order Code	1+	+
838-8580	94.40	--

Mini Infrared Thermometer 805



A non-contact thermometer, fits into any jacket pocket and is always within reach. TopSafe protection case is watertight. Measuring range is -22 to +110°C and ratio of distance to measuring spot is 1:1. Ideally suited for rapid measurements in food industry, supermarkets or the home.

NEW

- Small and handy, fits into a jacket pocket
- High accuracy
- Watertight and robust
- TopSafe case is dishwasher proof
- Max and Min values displayed
- Scan mode for permanent measurement

H=80, W=31, D=19mm
Weight = 28g

Parameters	°C/°C	Sensor	0.95
Sensor	Infrared	Operating temp	0°C to +50°C
Measuring Range	-25 to +250°C	Storage temp	-20°C to +65°C
Resolution	0.1°C	Battery	CR 2032
Accuracy	$\pm 1^\circ\text{C}$ to ± 3	Battery Life	40 hours

377677.381252

Mfrs. List No.	Order Code	1+	+	+
805	836-9020	144.95	--	--

Infrared Thermometer FLUKE 61

FLUKE

The Fluke 61 thermometer provides a quick non-contact temperature measurement in a compact case surrounded with a protective holster. Targeting objects is easy with the bright laser beam activated via the simple push button operation. Even in the dark the display is simple to read with the quality backlit screen. Ideal for measuring surface temperatures of rotating, hard-to-reach, electrically live or dangerously hot targets.

**LATEST
PRICING**

- Shock-absorbing holster increases ruggedness
- Bright laser beam provides easy targeting
- Large display clearly supplies data at a glance
- Quality backlight illuminates the screen in the dark
- Automatic sleep mode after 15 seconds extends battery life
- Alkaline batteries provide over 4000 typical measurements
- Battery life: 12 hours with laser and backlight activated
- Dimensions (LxWxH): 184x45x38mm
- Weight: 227g

Ranges	-18°C to 275°C (0°F to 527°F)
Response Time	< 1 second
Resolution	0.2°
Repeatability	$\pm 2^\circ$ of reading or $\pm 2\%$, whichever is greater
Accuracy	Four Targets at:
(Assumes ambient operating temperature of 23°C)	-18°C to -1°C (0°F to 30°F): $\pm 3^\circ$ ($\pm 5^\circ\text{F}$)
	-1°C to 275°C (30 to 527°F): $\pm 2\%$ of reading or $\pm 2^\circ\text{C}$ ($\pm 3.5^\circ\text{F}$), whichever is greater
Optical resolution	8:1 Distance to spot size ratio
Emissivity	Fixed at 0.95
Minimum spot size	Minimum 200mm (spot 25mm)

Prices are in Singapore Dollars and exclusive of GST.
Due to the volatile nature of certain products,
prices are subject to change without notice.

Prices where indicated by a **+** are subject to change. Please call your local sales office or visit www.farnellone.com for the latest prices.

333733

Mfrs. List No.	Order Code	1+	Price Each	+	+
FLUKE 61	397-0061				
C23 Carry Case	428-3600				

Infrared Thermometer

830-T1/-T2



H=190, W=75, D=38mm Weight=200g

830-T1 features

- Fast logging
- Laser sighting
- Adjustable alarm limits
- Audible and visual alarm if limits are exceeded
- Easy handling via pistol design
- Backlit display
- Adjustable emissivity factor (0.2 to 1.0)

830-T2 Extra features

- Exact 2-point siting
 - Accurate 12:1 lens
 - External temperature probes can be connected
 - Emissivity level can be determined
- 830-T2 Set Consists of**
- 830-T2 Thermometer
 - Accurate surface probe
 - Leather protection sleeve

NEW

An infrared thermometer with choice of 1 or 2-point laser sighting. Has adjustable limit values and alarm function, the 830-T2 also has connection for external probes.

Measuring Range	-30 to +400°C
Resolution	0.5°C
Accuracy	±1.5°C (0.1 to +400°C) ±2°C (-30 to 0°C)
Application temp	-20°C to +50°C
Storage temp	-40°C to +70°C
Battery	9V Block
Life	15 hours
Lens	830-T1: 10:1 830-T2: 12:1
Contact temp measurement (type K)	-50 to +500°C
Resolution	0.1°C
Accuracy	±0.5°C

377676

Mfrs. List No.	Order Code	1+	Price Each	+	+
830-T1	836-8996	282.05	--	--	--
830-T2	836-9003	385.20	--	--	--
830 TS SET	836-9011	590.88	--	--	--



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and Europe warehouses.

300,000 products at your fingertips

Infrared Thermometer Selection Guide

FLUKE

Model	61	62	63	65	66	68	572	572CF	574	574CF	576	576CF
Form Factor	Flat Grip	Pistol Grip	Pistol Grip	Flat Grip	Pistol Grip	Pistol Grip	Pistol Grip	Pistol Grip	Pistol Grip	Pistol Grip	Pistol Grip	Pistol Grip
Min. Temperature	-18°C	-30°C	-32°C	-40°C	-32°C	-32°C	-30°C	-30°C	-30°C	-30°C	-30°C	-30°C
Max. Temperature	275°C	500°C	535°C	500°C	600°C	760°C	900°C	900°C	900°C	900°C	900°C	900°C
Repeatability	±2%	±2%	±2%	±1%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Resolution	0.2°C	0.2°C	0.2°C	0.1°C	0.1°C	0.1°C	0.1°C	0.1°C	0.1°C	0.1°C	0.1°C	0.1°C
Accuracy	±2%	±1.5%	±1%	±2%	±1%	±1%	±0.75%	±0.75%	±0.75%	±0.75%	±0.75%	±0.75%
Response Time	<1s	<0.5s	<0.5s	<1s	<0.5s	<0.5s	<250s	<250s	<250s	<250s	<250s	<250s
Emissivity	0.95	0.95	0.95	0.95	0.1 to 1.0	0.1 to 1.0	0.1 to 1.0	0.1 to 1.0	0.1 to 1.0	0.1 to 1.0	0.1 to 1.0	0.1 to 1.0
Laser Targeting Beam	●	●	●	●	●	●	3 beam	3 beam	3 beam	3 beam	3 beam	3 beam
Optical Resolution	8:1	10:1	12:1	8:1	30:1	50:1	60:1	50:1	60:1	50:1	60:1	50:1
Distance to Target	1m	1.5m	2m	1m	5m	8m	10.5 m	10.5 m	10.5 m	10.5 m	10.5 m	10.5 m
Backlit LCD Display	●	●	●	●	●	●	●	●	●	●	●	●
Bargraph Display	●	●	●	●	●	●	●	●	●	●	●	●
Selectable °C or °F	●	●	●	●	●	●	●	●	●	●	●	●
MIN/MAX Readings		MAX only	MAX only	●	●	●	●	●	●	●	●	●
AVG/DIFF Readings				AVG only	●	●	●	●	●	●	●	●
Hi/Lo Alarm					●	●	Hi only	Hi only	●	●	●	●
Data Logging				1	12	12			100	100	100	100
PC Connection									RS232	RS232	USB	USB
Built-in Digital Camera											●	●
Battery Life	12h	12h	10h	15h	20h	20h	10h	10h	10h	10h	8h	8h

Specifications are representative only, for full specifications see the individual product entry



414914

Mfrs. List No.	Order Code	Price Each*
FLUKE 61	397-0061	
FLUKE 62	947-9813	
FLUKE 63	921-0083	
FLUKE 65	302-8240	
FLUKE 66	921-0091	
FLUKE 68	921-0105	

*For more price breaks see the main product pages

Mfrs. List No.	Order Code	Price Each*
FLUKE 572	947-9821	
FLUKE 572CF	947-9830	
FLUKE 574	947-9848	
FLUKE 574CF	947-9856	
FLUKE 576	979-2716	
FLUKE 576CF	979-2724	

*For more price breaks see the main product pages

Test Equipment - Environmental/Weighing

46

Compliant
Non-compliant
+ Limited stock - RoHS replacement available

RoHS

Infrared Thermometer
Model 62**FLUKE**W=101 H=152 D=38mm.
Weight 200g

- Laser guided sighting system for easy targeting with 1% accuracy
- Display in °C or °F
- Backlit display for easy reading in the dark
- MAX temp reading

Form factor
Temperature range
Optical resolutionPistol grip
-30 to 500°C
10:1Response time
Resolution
Repeatability≤0.5 seconds
0.2°C
2%**Accuracy**<10°C:
10 to 30°C:
30 to 500°C:
Distance to target
Emissivity±1.5°C
±1°C ±1.5% of reading
±1.5°C
1.5m
Fixed at 0.95**NEW**Prices where indicated by a are subject to change. Please call your local sales office or visit www.farnellinone.com for the latest prices.

413770.429079

Description	Mfrs List No.	Order Code	1 +	Price Each	+
IR Thermometer	62	947-9813			
HOLSTER	H6	828-3931			
CASE, HARD	C101	947-9783			
Standard Calibration Charge			S		

Infrared Thermometers
60 Series**FLUKE**

W=160 H=200 D=55mm. Weight 320g

The Fluke 60 Series non-contact thermometers are the ideal professional diagnostic tools for quick and accurate temperature measurements. Ideal for measuring surface temperatures of rotating, hard-to-reach, electricity live or dangerously hot targets like electrical motors and -panels, and heating and ventilation systems. Laser sighting system guides measurements to the right target and in less than a second, the large temperature display provides a readout of the surface temperature.

NEW

- Laser guided sighting system for easy targeting with 1% accuracy
- Up to 12 points datalogging with min, max and average functions
- Up to 50:1 optical resolution
- Choice between models with fixed or adjustable emissivity
- Backlit display for easy reading in the dark
- Temperatures up to 760°C

	63	66	68
Form factor	Pistol grip	Pistol grip	Pistol grip
Temperature range	-32 to 535°C	-32 to 600°C	-32 to 760°C
Optical resolution	12:1	30:1	50:1
Laser beam	●	●	●
Backlit LCD display	●	●	●
Selectable °C or °F	●	●	●
MIN/MAX/AVG/DIF	●	●	●
Datalogging	●	●	●
Hi/Lo Alarm	●	●	●
Adjustable emissivity	MAX only	●	●
Response time	≤0.5 secs	≤0.5 secs	≤0.5 secs
Resolution	0.2°C	0.1°C	0.1°C
Repeatability	±0.5% or ≤±1°C	±0.5% or ≤±1°C	±0.5% or ≤±1°C
Accuracy			
<26°C:	±3°C	±3°C	±3°C
-26 to -18°C:	±2.5°C	±2.5°C	±2.5°C
-18 to 23°C:	±2°C	±2°C	±2°C
23 to 510°C:	±1% of reading or ±1°C	±1% of reading or ±1°C	±1% of reading or ±1°C
> 510°C:	±1.5% of reading	±1% of reading or ±1°C	±1% of reading or ±1°C
Distance to target	Up to 2m	5m	8m
Emissivity	Fixed at 0.95	0.1 to 1.0 by 0.01 steps	0.1 to 1.0 by 0.01 steps

Prices where indicated by a are subject to change. Please call your local sales office or visit www.farnellinone.com for the latest prices.

403475.429078

Description	Mfrs List No.	Order Code	1 +	Price Each	+
IR Thermometer 535°C	63	921-0083			
IR Thermometer 600°C	66	921-0091			
IR Thermometer 760°C	68	921-0105			
HOLSTER	H6	828-3931			
CASE, HARD	C101	947-9783			
Standard Calibration Charge			S		

Infrared Thermometers
570 Series**FLUKE**Model 572/574:
W=170 H=200 D=55mm. Weight 480gModel 576:
W=170 H=240 D=55mm. Weight 580g

- Enhanced optics allows measurements of smaller objects from farther away
- True Dimension™ three-dot laser sighting system highlights the true diameter of measurement spots at all distances
- Adjustable emissivity setting and 30 pre-set common material values for more accurate measurements
- 100 data point memory for storage of measurements (Fluke 574, 576)
- Instantly captures and stores photographs of temperature measurement locations for improved documentation (Fluke 576 only)
- Temperatures up to 900°C
- 2 Years Warranty

NEW

The Fluke 570 series of advanced IR non-contact thermometers are ideal for predictive and preventative maintenance applications. Offering a broad temperature range and a true dimension laser sighting system for precise targeting resulting in more accurate measurements. From close-up electrical connections, to far distance room balancing checks, the Fluke 570 series can take IR temperature measurements with ease and precision.

Included Accessories**Fluke 572:** Hard carry case, batteries.**Fluke 574:** Hard carry case, batteries, thermocouple K probe, 220V PSU, DataTemp software, RS232 cable**Fluke 576:** Hard carry case, batteries, thermocouple K probe, DataTemp software, USB cable

	572	574	576
Temperature range		-30 to 900°C	
Optical resolution		Standard 60:1 / Close Focus 50:1	
Three dot laser beam for accurate targeting	●	●	●
Adjustable emissivity	●	●	●
Bar graph display	●	●	●
Backlit LCD display	●	●	●
Selectable °C or °F	●	●	●
Audible and visible Hi/Lo alarm	- / ●	● / ●	● / ●
MIN / MAX readings	●	●	●
AVG / DIF readings	●	●	●
Datalogging (number of measurements)		100	100
PC interface		RS232	USB
Built-in digital camera			●

572 / 574 / 576

Response time
250 ms (95% of reading)
Resolution
0.1°C of reading up to 900°C
Repeatability
±0.5% of reading or ±1°C *
Accuracy
±0.75% of reading, ±0.75°C *
Typical distance to target
10.5 m
Emissivity
Digitally adjustable from 0.1 to 1.0 in 0.01 increments
* whichever is greater

Prices where indicated by a are subject to change. Please call your local sales office or visit www.farnellinone.com for the latest prices.

413796

Mfrs List No.	Order Code	1+	3+	5+
Without Close Focus				
572	947-9821	20	20	20
574	947-9848	20	20	20
576	979-2716	20	20	20
With Close Focus				
572CF	947-9830	20	20	20
574CF	947-9856	20	20	20
576CF	979-2724	20	20	20
Accessories				
AN5 Analogue Data Cable	947-9864	20	20	20
C570 Holster	947-9872	20	20	20
Standard Calibration Charge		Price Each		
		S 64		

pH Meters

pH Tester



- Low cost
- Ideal for testing involving test-tubes or limited access
- Large clear LCD
- pH meter 710-7535
- Replacement pH electrode 710-7547

pH: replacement electrode available
0-14pH, 0.01 res
Accuracy: ± 0.2 pH
Calibration: 4/10 and 7

Dimensions: 66 x 50 x 25mm

222471

Description	Order Code	1+	+	+
pH tester	710-7535	84.64	--	--
Replacement electrode	710-7547	58.28	--	--

Pocket Waterproof pH and Conductivity Meters



- A range of low cost meters
- Waterproof meters IP67
- Ideal for quick on-the-spot testing
- Easy read LCD

pH meters offering accuracy to 0.1pH and 2 point calibration. Microprocessor pHep 3 has auto calibration and temperature compensation, stable reading indicator, auto shut off after 10 minutes and self diagnostic error messages for enhanced ease of use.

Conductivity meters have single point calibration and auto temperature compensation for high accuracy readings.

H=150mm, W=30mm, D=24mm

	pHEp1	pHEp2	pHEp3	Dist3WP	Dist4WP
Range	0-14pH	0-14pH	0-14pH	0 to 1999 μ S	0.00 to 19.99mS
Resolution	0.1pH	0.1pH	0.1pH	1 μ S/cm	1ms/cm
Accuracy	± 0.1 pH	± 0.1 pH	± 0.1 pH	$\pm 2\%$ full scale	$\pm 2\%$ full scale
Calibration	4/10 and 7pH	4/10 and 7pH	4/10 and 7pH	1413 μ S	5000 μ S

222494

Mfrs. List No.	Order Code	1+	+	+
pHep 1	710-7663	100.84	--	--
pHep 2	710-7675	135.41	--	--
pHep 3	710-7687	132.23	--	--
Dist3WP	710-7031	144.00	--	--
Dist4WP	710-7043	144.00	--	--

pH Meter
206

NEW



H=197, W=33, D=20mm Weight = 69g

Compact pH measuring instruments for measuring liquids (model: pH1) or semi-solids (model: pH2). Automatic recognition of a stable reading makes it easier to measure. The TopSafe case makes the instruments ideal for outdoor applications or use in tough industrial conditions.

- Versatile, accurate pH measuring instrument
- Not affected by dust or dirt thanks to the TopSafe protection case
- Maintenance-free gel electrode
- Built-in temperature probe
- 2 line display
- Automatic full scale value recognition
- pH1 offers a probe head for liquids, pH2 offers a probe head for semi-solids

Starter Kits also available, consisting of:

- Testo 206 instrument
- Belt / wall holder
- 2 x 250ml buffer solution with dosing chamber (pH4 and pH7)
- High standard aluminium storage case

Parameters	pH / °C	Temperature compensation	Automatic
Sensor	pH electrode / NTC	Display	LCD, 2 line, 0 to 70°C
Measurement channels	2	Probes	Screw-in pH / °C probe modules
Measuring Range	0 - 14 pH	Measurement rate	2 measurements per second
Resolution pH	0.01 pH	Operating temp	0°C to +60°C
Resolution Temperature	0.1°C	Storage temp	-20°C to +70°C
Accuracy pH	± 0.02 pH	Battery	1x CR2032
Accuracy Temperature	± 0.4 °C	Battery Life	80 hours (auto off 10 min)

377679.381254

Description	Mfrs. List No.	Order Code	1+	2+	5+
pH Meter for liquids	206 PH1	836-9089	293.80	--	--
pH Meter for liquids starter kit	206 PH1 KIT	836-9097	473.34	--	--
pH Meter for semi-solids	206 PH2	836-9100	502.73	--	--
pH Meter for semi-solids starter kit	206 PH2 KIT	836-9119	708.39	--	--
pH Buffer 4.01, 3 pack	05542062	836-9054	81.28	77.40	72.81
pH Buffer 7.00, 3 pack	05542064	836-9062	81.28	77.40	72.81
pH Buffer 10.01, 3 pack	05542066	836-9070	81.28	77.40	72.81

TDS and Conductivity pH Buffer Solutions



- Single use pH, Conductivity and TDS buffer solutions
- Each 25ml sachet contains enough solution for one calibration
- Simple to use, open sachet, insert test-er and calibrate
- No extra containers required
- No solution is wasted
- Sachets are supplied in packs of 25

223058

25 Per Pack	Mfrs. List No.	Order Code	1+	5+	10+	+
pH Sachets						
4.01pH	HI-700004P	725-9130	43.52	--	--	--
7.01pH	HI-70007P	725-9141	43.52	--	--	--
10.1pH	HI-70010P	725-9153	42.75	41.67	40.62	--
Conductivity Sachets						
84 μ S/cm	HI-70033P	327-7227	42.75	--	--	--
1413 μ S/cm	HI70031P	505-7486	48.82	--	--	--
5000 μ S/cm	HI-70039P	327-7239	42.75	--	--	--
12880 μ S/cm	HI70030P	505-7474	48.82	--	--	--
TDS Sachet						
644ppt	HI70038P	505-7504	48.82	--	--	--
1382ppm	HI70032P	505-7498	50.94	--	--	--

Test Equipment - Environmental/Weighing

46

Compliant
Non-compliant
+ Limited stock - RoHS replacement available

RoHS

Pre-mixed Calibration Solution

pH and Conductivity



- 460ml plastic screw top bottles
- Available for both conductivity and pH calibration
- Ready to use calibration standards
- Supplied with calibration chart

222570

pH buffer solution	Order Code	1+	+	+
pH4.01	710-5423	25.53	--	--
pH7.01	710-5435	25.48	--	--
pH10.01	710-5447	25.53	--	--
Conductivity calibration solution				
12880 μ S/cm	710-7365	36.22	--	--
1413 μ S/cm	710-7377	36.27	--	--
84 μ S/cm	710-7389	36.27	--	--

Magnetic Stirrer



- General-purpose laboratory stirrer
- Capacity 1 litre
- Precision speed control variable up to 1000rpm
- Compact size saves on bench space
- Built-in speed limiter for extra safety

Very popular low-cost and compact magnetic stirrer for laboratory and production use giving variable speed up to 1000rpm for samples of up to 1 litre. For safety, electronic controls are incorporated for precision speed control and to limit the maximum speed even if the load is suddenly removed. The ABS plastic top cover resists accidental chemical spills and is supplied with one 25mm long Teflon® coated stir bar.

lin53/221010

Mfrs. List No.	Order Code	1+	5+	Price Each	+	+
HI-190M	710-5710	171.00	169.91	--	--	--

Conductivity Meters

Hand-Held Conductivity Meter

HI 8733



Designed for use in quality control, industry, production areas, general laboratory and field use, the HI-8733 uses a single, easy-to-clean multirange PVC probe with four stainless steel rings to measure from de-ionised water to brine. Single point calibration gives accurate readings across the entire range and a built-in temperature sensor provides automatic temperature compensation. Temperature coefficient is adjustable from 0 to 2.5%/°C. Supplied complete with probe and battery.

- Microprocessor hand-held conductivity meter
- Single probe covers the range: de-ionised water to brine
- Single point calibration
- Automatic temperature compensation

Range	0.0 to 199.9 μ S/cm 0 to 1999 μ S/cm 0.00 to 19.99mS/cm 0.0 to 199.9mS/cm 0.1 μ S/cm, 1 μ S/cm, 0.01mS/cm, 0.1mS/cm $\pm$ 1% full scale
Resolution	0.1 μ S/cm, 1 μ S/cm, 0.01mS/cm, 0.1mS/cm
Accuracy	$\pm$ 1% full scale
Calibration	Manual single point through trimmer
Temperature compensation	Automatic with a compensation of 0 to 2.5% per °C
Battery type / life	9V PP3, 100 hours
Dimensions	185 x 82 x 45mm
Mfrs. List No.	HI-8733
Weight	355g

224545

Order Code	1+	+	+	+
710-7110	835.60	--	--	--

pH & Conductivity/TDS Meter



- Reads both pH and conductivity
- Simply dip into the sample and take your reading
- Rugged, specifically designed for field applications
- Automatic temperature compensation guarantees accurate reading

Range	WATERCHECK 0-14pH 0 to 1990 μ S/cm	WATERCHECK 1 0-14pH 0 to 1990ppm (mg/l) 0.1pH 10ppm	Accuracy	$\pm$ 0.2 pH/ $\pm$ 2% F.S.
Resolution	0.1pH 10 μ S/cm	0.1pH 10ppm	Battery Life	approx 290h
			Dimensions	194 x 29 x 15
			Weight	70g

224549

Mfrs. List No.	Order Code	1+	+	+	+
WATERCHECK	725-9165	243.36	--	--	--
WATERCHECK1	327-7173	302.54	--	--	--

pH/EC/TDS Meter



HI-9812



- Measures both pH and conductivity using the same sensor
- More robust and accurate than the pocket version
- Microprocessor control provides automatic temperature compensation

Range	0-14pH 0 to 1990 ppm 0 to 1990 μ S/cm
Resolution	0.1 pH 10 ppm 10 μ S/cm
Accuracy	$\pm$ 0.2 pH $\pm$ 2% pH $\pm$ 2% μ S/cm

Compensation	Automatic from 0 to 50°C	Dimensions	182mm x 82mm x 45mm
Battery Life	approx 150 hours	Weight	520g

228178

Mfrs. List No.	Order Code	1+	+	+	+
HI-9812	725-9189	396.19	--	--	--

Combined pH/Conductivity/TDS Meter and Thermometer



HI-991300



Simply press a button to go from one parameter to the next. Calibration is automatic for ease of use with auto-buffer recognition. The LCD is dual level with a continuous temperature display in either °C or °F, and with a stability indicator to ensure accuracy. Ideal for industrial, production and field use, saving both time and resources. Supplied with combination probe/electrode and battery.

- Measuring pH, conductivity, TDS and temperature all with one probe

Range pH	0 to 14	Resolution	0.01	Accuracy	$\pm$ 0.02
Conductivity	0 - 3999 μ S/cm 0 - 1999ppm		1 μ S/cm 1ppm		2% full scale
Temperature °C	0 - 60°		0.1		$\pm$ 0.5

Calibration	1 or 2pt(4.01, 6.86, 7.01, 9.18, 10.01)	Battery/life	4 x AAA, 500h
Conductivity	1 pt at 1382ppm or 1413 μ S/cm		

224550

Mfrs. List No.	Order Code	1+	+	+
HI-991300	327-7197	972.47	--	--

Moisture Meters

Moisture Meter

T606



The compact 606 moisture meter has direct humidity display to measure moisture in wood, building materials etc.

- Low cost and user friendly
- Measuring range: wood 6 to 44%, building materials 0.2% to 2%
- Automatic measurement and battery test
- Supplied with protective cap, clip, battery and instruction manual

Applications

- Measures moisture in lumber piles
- Measures moisture in walls, floors and plaster

222561

Order Code	1+	+	+
311-8435	393.82	--	--

Multi-Function Instruments

Multi-Function Measuring Instrument
435

W=74 H=225 D=46mm.

A multi-function instrument designed for the analysis of air quality. The instrument is suitable for ensuring employees' safety and well-being in workplace environments and the maintenance of optimum conditions in storage and production processes. The testo 435 can be used to measure CO₂, relative humidity and air temperature to ensure conditions are at the correct level and to indicate whether air conditioning systems are working at optimum levels.

Designed for ease of use with easy to follow menus that offer users the ability to allocate measured values to measurement locations. These instruments also offer the ability to switch between 2 User Profiles for channel measurement and for measuring Indoor Air Quality (IAQ).

Robust design for durability to protection class IP 54. The testo 435 has been designed to provide an instrument that is both easy to use and of strong construction. For example, the housing material offers built-in protection against knocks and jars and the large illuminated display is set back in the housing to offer protection. To assist everyday use the instrument features a carrying strap and magnets on the back panel for attachment at the measuring location.

Features:

- Wide selection of probes
- Easy use with user profiles
- Printing on the testo report printer
- Instrument store for 10,000 readings
- PC software for analysing, archiving and documenting measurement data

testo 435-2, multi-function measuring instrument for air conditioning, ventilation and Indoor Air Quality with readings memory, PC software, USB data transmission cable, battery and calibration protocol.

testo 435-4, multi-function measuring instrument with built-in differential pressure measurement for A/C, ventilation and Indoor Air Quality with readings memory, PC software, USB data transmission cable, battery and calibration protocol

Probes:

Multi-function Probes:

IAQ Probe (108-2995):

To assess Indoor Air Quality, CO₂, humidity, temperature and absolute pressure measurement.

Range	Accuracy
0 to 50°C	±0.3°C
0 to 100% RH	±2% RH (2% to 98% RH)
0 to 10000 ppm CO ₂	±(50ppm CO ₂ + 2% of mv) (0 - 5000ppm CO ₂)
	±(100ppm CO ₂ + 3% of mv) (5000-10000ppm CO ₂)
600 to 1150 hPa	±5 hPa

Flow Probes:

16mm Vane Probe (108-2996):

16mm diameter, with telescopic handle max. 890mm, e.g. for measurements in ducts

60mm Vane Probe (108-2997):

60mm diameter, with telescopic handle max. 910mm, e.g. for measurements at duct exit

Hot Wire Probe (108-2998):

For m/s and °C, probe head diameter 7.5mm, with telescopic handle max. 820mm

	Range	Accuracy
16mm Vane	0.6 to 40 m/s	±(0.2m/s + 1.5% of mv)
60mm Vane	0.25 to 20 m/s	±(0.1m/s + 1.5% of mv)
Hot Wire	0 to 20 m/s	±(0.03m/s + 5% of mv)

	Range	Accuracy
Air Probe (108-3001):	-50 to 150°C	±0.2°C (-25 to 74.9°C)
Efficient, robust NTC air probe.		±0.5% of mv (100 to 150°C)
		±0.4°C (rest of range)

Immersion Probe (108-3000):

Waterproof immersion / penetration probe, T/C Type K.

Temperature / Humidity Probe (108-2999):

12mm diameter humidity / temperature probe.

	Range	Accuracy
	-20 to 70°C	±0.3°C
	0 to 100% RH	±2% RH (2 to 98% RH)

Other Accessories:

Wireless Probes

As well as cable connected probes, the testo 435 can also be used with a range of wireless probes. Wireless probes offer users exceptional practicality as hindrance during measurement and potential damage to the probe cable are eliminated. To convert the instrument for use with the wireless probes an optional wireless module (108-3002) is required. This can be used in conjunction with the Wireless Probe Handle (108-3003) and Humidity Probe head (108-3005) for the measurement of temperature and humidity.

Range	Accuracy	Range	Accuracy
-20 to 70°C	±0.5°C	Radio Frequency	869.85 MHz
0 to 100% RH	±2% RH (2 to 98% RH)		

Documentation

The testo 435 offers users 2 convenient documentation options; print out on-site or analysis and documentation on a PC. The testo printer (836-9240) offers a convenient and easy to use option for on-site documentation. The testo 435 transmits the data to the printer wirelessly via an infrared interface. Date, time and measured data are all documented on the printout. The testo 435-2 and 435-4 models offer users the option to store both single measurements and measurement series (up to 10,000 measurement values). Data can then be analysed and documented on PC in either tables or graphs, using Testo's ComSoft software.

418078

Description	Order Code	1+	3+	5+
435-2 Measuring Instrument	108-2993	1,207.83	--	--
435-4 Measuring Instrument	108-2994	1,762.81	--	--
Multi-Function Probes				
IAQ Probe	108-2995	1,544.07	--	--
Flow Probes				
16mm Vane Probe	108-2996	946.68	--	--
60mm Vane Probe	108-2997	949.94	--	--
Hot Wire Probe	108-2998	522.30	--	--
Other Probes				
Temp/Humidity Probe	108-2999	698.59	--	--
Type K Immersion Probe	108-3000	86.19	--	--
NTC Air Probe	108-3001	152.46	--	--
Other Accessories				
Pitot Tube	501-0720	278.89	--	--
Wireless Module	108-3002	83.23	--	--
Wireless Handle	108-3003	208.94	--	--
Humidity Probe Head	108-3005	390.11	--	--
Service Case	108-3006	179.55	--	--
IRDA Printer	836-9240	532.09	491.18	456.09
Spare Printer Rolls (6)	444-6537	37.11	--	--

Light Meters

Portable Light Meter



LM631



NEW

DURACELL
Ultra H3 AAA
Order Code 310-1749

The LM631 is a portable, easy-to-use, compact sized digital light meter designed for simple one hand operation with the measurement reading in lux or fc units. This value priced unit offers high resolution readings and adherence to published standards for human eye response to illuminance.

- Sensor dome has 1143mm (45") attached cord for measurement flexibility
- Large 3-1/2-digit display with backlight feature
- Analogue output for monitoring and charting
- Meets CE EN61326-1 certification for safety ratings
- Peak hold and data hold
- Built-in CIE spectrum curve for accurate human eye response

Includes: carry case, extra lens cover, 4 AAA batteries and manual

W=44 H=170 D=40mm. Weight 220g

Ranges	20, 200, 2000, 20000 lux / 20, 200, 2000 20000 fc
Resolution	0.01 lux / 0.01 fc
Accuracy	±(3% + 10 digits)
Temperature Coefficient	0.1 x (specified accuracy) per °C
Spectral Response	CIE Photopic - CIE Standard Illuminant A
Battery type and life	4x AAA, 200 hours

416660

Mfrs. List No.	Order Code	1+	+	+
LM631	101-8363	263.66	--	--

Digital Light Meter
72-6693

W=72, D=32, L=180

An easy to use, versatile, hand-held, microprocessor controlled, digital light meter.

- 3 ranges 2,000/20,000/50,000 LUX
- 3 ranges 200/2,000/10,000 Ft-cd
- Extra large, dual function display with contrast adjustment
- User selectable lighting type (tungsten, fluorescent, daylight and mercury)
- Records max./min./avg. readings
- Data hold and auto power off
- Includes owner manual
- CE marked

Range	2000 LUX	Resolution	1 LUX	Power	9V Battery (not included)
	20,000 LUX		10 LUX	Dimensions	W = 55mm, L = 85mm, D = 12mm
	100,000 LUX		100 LUX		(sensor probe)
	200 Ft-cd		0.1 Ft-cd		
	2,000 Ft-cd		1 Ft-cd		
	10,000 Ft-cd		10 Ft-cd		

228182

Mfrs. List No.	Order Code	Price Each
72-6693	356-2670	186.00

Lux Meter

- 3½ digit display
- Low battery indicator
- Hand held digital light meter with integral sensor
- 3 switchable ranges
- Supplied with carry case



0 - 1999 lux (resolution 1 lux)
0 - 19999 lux (resolution 10 lux)
19999 - 50,000 lux (resolution 100 lux)

Requires 9V PP3 battery for operation

224552

Mfrs. List No.	Order Code	1+	Price Each	+	+
LX101	725-109	180.00	--	--	--

**Light Meter
T545**

In order to have good light quality the luminous intensity in places of work, hospitals, offices or schools has to fulfil specific minimum values. This can be measured and documented

- Timed mean calculations
- Multi-point mean calculations via 99 measurement points
- Up to 99 locations can be selected
- Logger function (3000 measured values)
- Hold/Max/Min/Mean
- 2 switchable ranges of resolution
- Supplied with probe, battery and instruction manual



H=50mm, W=68mm, L=220mm

Measurement range	0 to 100,000 Lux	0 to 100,000 Lux 10 Lux
Resolution	0 to 32,000 Lux 1 Lux	
Weight	500g	

222568

Mfrs. List No.	Order Code	1+	Price Each	+	+
T545	311-8447	781.91	--	--	--

Water Testing**4 in 1 Water Tester**

To obtain readings simply fill the reservoir with water sample to be tested. The built-in sensors will take measurements in seconds and display the results on a large clear display.

- Portable handheld combined water tester
- Measures pH, conductivity, ORP (redox) and temperature
- Ideal for both laboratory and field use

	pH	ORP	Conductivity	Temperature
Range	0 to 14	±1000mV	0 to 1999 µS/cm	0 to 60°C
Resolution	0.1	1mV	1µS/cm	0.1°C
Accuracy	±0.2	±5mV	±2% (full scale)	±1°C
Calibration	2 point		1point	
Temp Compensation	Auto			

Operating Environment 0 to 50°C
Battery 4 x 1.4v button cell (supplied)
Battery life Approx 200h (cont use)

222473

Order Code	1+	Price Each	+	+
710-6245	479.03	--	--	--

Sound Level Meters**Analogue Sound Level Meter**

- Analogue sound level meter ideal for monitoring noise levels in the work place
- Measurements are indicated on a clear graduated scale
- Calibration can be checked and adjusted via an internal sine wave oscillator
- Supplied with a soft carry case
- Requires a 9V PP3 heavy duty battery



Range 40 to 80dB (Lo) / 80 to 120dB (Hi)
Resolution 2dB increments
Accuracy ±3% to JISdB(A) standard

224561

Order Code	1+	Price Each	+	+
723-0564	117.18	--	--	--

Mini Sound Level Meter

- Wide dynamic range from 30 to 130dB
- 1.5dB accuracy
- Max hold and data hold
- Frequency weighting A and C to respond for human sense or machine monitoring
- Fast and slow time constant setting
- Meets IEC651 type 2

NEW

Level Range Low = 30 - 100dB
High = 60 - 130dB
Accuracy ±1.5dB (ref 94dB @ 1kHz)
Frequency Range 31.5Hz to 8kHz
Frequency Weighting A, C
Time Weighting Fast, Slow
Auxiliary Outputs AC/DC signal output
Battery Type 9V battery

W=55 H=210 D=32mm.
Weight 230g

414852.403927

Description	Order Code	1+	Price Each	+	+
Sound Level Meter	100-3031	130.04	--	--	--

Digital Sound Level Meter

An easy to use, hand-held, digital sound level meter.

- A weighting
- 3 ranges, 35-130dB measurement
- 3½ digit LCD
- Fast response
- Meets IEC 651 type 2 standards
- Over and under range indicator
- Data hold
- Includes owner manual
- Requires 9V battery (not included)
- CE marked

Range 35-80dB/50-100dB/80-130dB
Resolution 0.1dB
Accuracy ±1.5dB at 1kHz(94dB level)

H=25, W=67

228191

Mfrs. List No.	Order Code	1+	Price Each	+	+
72 - 6635	356-2657	225.00	--	--	--

Digital Sound Level Meter

72-860A



The 72-860A is a hand held, general purpose sound meter for type 2 measurement.

- A and C weighting
- 3½ digit LCD
- 35-130dB measurement
- 2 ranges
- Meets IEC 651 type 2 standards
- ½" condenser microphone
- Fast and slow dynamic response
- Over and under range indicator
- Maximum level hold
- Internal oscillator for calibration
- AC and DC signal output
- RS232 interface
- Includes owners manual, 9V battery, carrying case, wind screen and adjustment screwdriver

Range 35-90dB(low), 75-130dB(high)
Resolution 0.1dB
Frequency Range 30Hz-12kHz
Accuracy ±2.0dB at 1kHz(94dB level)
AC output 0.65 V RMS corresponding to each range step
DC output 10mV/dBm nominal
Dimensions 66.68 (W) X 241.3 (L) X 25.4 (H)

336783.343913

Mfrs. List No.	Order Code	1+	+	+
72-860A	490-8430	334.91	--	--

Sound Level Meters

815 and 816



W=55 H=255
D=43mm. Weight 195g



W=68 H=309
D=50mm. Weight 315g

testo 815: The ideal instrument for daily use. Whether it is for air conditioning or heating, disco noise, machine noise or noise in combustion systems.

Common Features:

- Accuracy class 2 according to IEC 60651
- Easy to adjust (calibration screwdriver included)
- Frequency weighting according to characteristic line A and C
- Max / Min memory
- Built-in stand screw (1/4 inch)
- Switchable time weighting Fast / Slow

testo 816: The instrument for evaluators, workplace measurements and measuring industrial and environmental noise.

Additional Features of the testo 816:

- Automatic range switchover
- Backlit display
- Mains unit connection
- BarGraph display
- AC output to connection from recorders and amplifiers
- DC output with 10 mV/dB to connect recorders or dataloggers

Measuring Range 32 to 130dB°C
Accuracy ±1 digit
Resolution 0.1dB
Battery Life 70 hours

testo 815

32 to 130dB°C
Class 2 ±1.0dB
0.1dB
70 hours

testo 816

30 to 130dB°C
Class 2 ±1.0dB
0.1dB
50 hours

Sound Level Calibrator: Sound level measuring instruments should be re-calibrated in case of changes in place or temperature. With the help of the calibrator, available as an accessory, both instruments can easily be controlled and adjusted. Two levels can be adjusted (94 and 114 dB). It is as well suited for 1/2 inch and 1 inch microphones of other makes.

Accuracy ±0.5dB in accordance with Class 2 to IEC60942
Sound Pressure Level 94dB / 114dB switchable
Frequency 1kHz
Battery Life 40 hours

418997

Description	Order Code	1+	+	+
815 Sound Level Meter	108-3015	590.88	--	--
816 Sound Level Meter	108-3017	1,191.53	--	--
Sound Level Calibrator	108-3018	881.39	--	--

Sound Level Meters - Integrating

Models 71 & 72



These instruments were designed with the National "Noise at Work" regulations in mind; they have the capability to measure the Equivalent Continuous Level or L_{eq} as well as Peak Sound Level. These instruments can also measure the three action levels simultaneously, making them one of the best tools for ensuring you are not breaking the noise at work regulations. The Model 71 conforms to Type 1 whilst Model 72 conforms to Type 2.

- Designed with current regulations in mind
- Compact with robust construction
- Compliance to all the appropriate standards
- Simple and user friendly

KIT Contents:

Sound level meter (with software and download cable), operation manuals, acoustic calibrator (Model 101), attache case and a windshield.

Standardisation IEC 60651 (BS EN 60651) Type 1 or Type 2.
IEC 608074 Type 1 or Type 2. IEC 61672 (2001 draft) Class 1 & 2
Weightings Frequency A & C Time F(fast) S(Slow) I(Impulse)
Display 3½ digit LCD with overload, under range, over range, low battery, display hold.
Outputs AC 2.2V for FSD and log DC at 25mV/dB with continuous range from 25 to 140dB
Environmental Temperature from -10°C to +50°C and Humidity from 10 to 95% RH Non-condensing
Power 2x 9V (PP3) batteries to provide over 40hrs continuous use
Preamplifier Type 1 Removable, Type 2 Fixed as standard
Functions Sound Level SPL, Maximum Sound Level L_{max} , Display Hold, Equivalent Sound Level L_{eq} , Equivalent Personal daily Noise, Exposure $L_{EP,d}$, True Peak (C weighted), SPL or L_{max} , L_{eq} and Peak (C) all measured concurrently
Range M71 27-140dB(A) and 36-140dB(C) and 60-143dB(C) Peak
M72 32-140dB(A) and 60-140dB(C) and 60-140dB(C) Peak
Physical M71 325x75x26mm 515g
M72 230x75x26mm 460g

339231

Description	Order Code	1+	+	+
Model 72 Meter	505-6690	2,314.30	--	--
Model 72 Meter KIT	505-6706	3,251.75	--	--
Model 71 Meter	505-6718	3,844.16	--	--
Model 71 Meter KIT	505-6720	4,877.23	--	--
Carry Case	501-9187	113.93	--	--
Wind Shield	501-9199	52.08	--	--
Outdoor Kit	501-9205	2,522.62	--	--

Vibration Meters



Vibration Meter

VM100



The VM Vibration Meter is a compact, lightweight, portable, battery powered device, supplied with a hand-held probe. The VM Vibration Meter is an ideal entry level instrument for vibration monitoring of plant and machinery around your factory. Supplied as a complete kit ready to use, with a hand held probe with attachable spike or magnet mount contained within a protective case.

- Simple operation
- Measures acceleration, velocity or displacement in three ranges
- Selection of peak or rms values
- Low pass filter selector to remove unwanted signals
- Ready to use out of the box

347175

Mfrs. List No.	Order Code	1+	+	+
VM100	506-3139	1,884.65	--	--

Vibration Indicator

MTN410



The 410 accelerometer has been developed for use in a wide range of applications including monitoring of pumps, fans, motors and turbines. It is a fully self-contained, battery-powered unit with unique features designed to benefit the most demanding applications.

- No external power source or wiring
- Predictive maintenance
- A short tap is all that is needed to turn on the device
- Unit goes to "sleep" after 1 minute
- Lithium manganese battery gives operating life of typically 5 years
- Integral display
- Extremely accurate
- Computes true RMS velocity to ISO 10816-1
- Robust stainless steel construction
- Simple to attach

347187

Mfrs. List No.	Order Code	1+	Price Each	+
MTN410	506-3140	996.03	--	--

Weather Stations

Wireless Rain Monitor WS7038



This rain monitor receives rain data from a wireless remote rain gauge and stores the history of rainfall over selected periods.

NEW

- Calendar and 24 hour time display
- Rainfall data for the last hour, the last 24 hours, total rainfall and the last rain
- Rainfall history for 7 days, 7 weeks or 7 months
- Rain alarm function

381140.344357

Mfrs. List No.	Order Code	1+	Price Each	+
WS7038	838-8784	118.61	--	--

Clock Barometer BAR623P



A radio controlled home or office weather forecaster, including date, time, alarm clock and thermometer. The unit has a blue backlight and is able to project time and temperature onto a wall or other suitable surface.

NEW

- Kinetic weather forecast
- Single channel remote thermometer
- Indoor thermometer
- RC clock with seconds/weekday
- Alarm facility with snooze button
- Calendar with moonphase
- Blue EL backlight
- Projection of time and temperature
- LCD size: 96x44mm

381145.344347

Mfrs. List No.	Order Code	1+	Price Each	+
BAR623P	838-8806	69.36	--	--

Digital Thermometer RAR621



A wireless thermometer with 2-line LCD display.

- Measures indoor and outdoor temperature
- Takes up to 3 remote sensors (1 supplied)
- Clock and calendar
- 2 minute single and weekday alarm
- 2nd time zone +9hr to -9hr

NEW

414895.407861

Description	Order Code	1+	Price Each	+
Thermometer	100-3431	53.48	--	--
Remote Sensor	100-3432	27.77	--	--

Weather Forecast Clock EMR899HG



- Built-in thermometer for local temperature reading
- Remote temperature readings via up to 3 wireless sensors (1 included)
- Temperature trend indicator
- Min/Max temperature & relative humidity memory
- Min/Max temperature & humidity alarm
- Switchable display from °C to °F

338618

Description	Mfrs. List No.	Order Code	1+	Price Each	+
Weather Clock	EMR899HG	501-9412	136.71	--	--
Additional Sensor	THGR228	501-9394	55.34	--	--

Mini Weather Forecaster BAR626



A radio controlled home or office weather forecaster, including date, time, alarm clock and thermometer.

NEW

- Kinetic weather forecast
- Multi-channel remote thermometer
- Indoor thermometer
- Radio controlled clock with seconds/weekday
- Alarm clock with snooze button
- Calendar with moonphase
- 3 channel
- LCD size: 50x60mm

381159.344344

Mfrs. List No.	Order Code	1+	Price Each	+
BAR626	838-8814	97.13	--	--

Weighing

Compact Balance AQT200

ADAM



NEW

H=70, W=195, D=240mm Weight = 1.2kg

- Large and very stable case in modern attractive design
- Stainless steel pan
- Low battery indicator
- Large, clear backlit LCD
- Auto power off to save battery life
- Battery or mains adaptor (supplied)

Maximum capacity	200g
Readability	0.01g
Resolution	1:20000
Repeatability	0.02g
Linearity	0.02g
Stabilisation time	3 secs
Units of measure	g, ct, oz, dwt, Tals (3) - Singapore, Hong Kong, Taiwan
Operating temperature	0 to 40°C
Power supply	12VAC @ 150mA adaptor or 6 x AA batteries
Calibration	Push button using external mass
Display	6 digit LCD, 15mm digits with backlight
Draught shield dimensions	180 x 158 x 82mm
Pan size	130mm ∅

383010.410630

Mfrs. List No.	Order Code	1+	3+	10+
AQT200	870-0524	554.94	515.33	513.83

Electronic Pocket Balance

CM Series



- Pocket balance and calculator
- Snap lid for protection against pressure and dust
- Adjusting programme CAL for quick setting of accuracy
- Auto power off after 5 mins
- Tare function

W=85, D=130, H=25mm

The balance with hinged cover is highly protected against all kinds of pressure. The wallet-size can be conveniently kept in a jacket pocket so is especially suited for mobile use. The weigh in function, e.g. for mixing is extremely practical. Batteries included.

	Range (g)	Resolution (g)	Plate size (mm)
CM 60-2N	60	0.01	70 x 80
CM 150-1N	150	0.1	80 x 70
CM 320-1N	320	0.1	80 x 70
CM 1 K1N	1000	1	80 x 70

339631.409399

Mfrs. List No.	Order Code	Price Each
CM 60-2N	483-8440	374.32
CM 150-1N	483-8452	182.28
CM 320-1N	483-8464	237.62
CM 1 K1N	483-8476	182.28

Digital Hanging Scales

Hand Held



- Constructed from hi-grade ABS plastic
- Ideal for use when conventional weighing pan is inappropriate
- Incorporates a tare facility
- Requires a 9V PP3 alkaline battery

Model	393-21	393-50	393-100
Range	15kg	50kg	50kg
Resolution	15g	50g	100g
Accuracy	±0.5%	±0.5%	±0.5%

220954

Range	Order Code	1+	3+	6+	+	+
15kg	723-0539	150.00	142.50	135.39	--	--
50kg	723-0552	165.00	156.75	149.45	--	--
50kg	494-9018	153.87	--	--	--	--

Portable Digital Weighing Scales



- Low cost portable scales
- Hi-grade ABS plastic case with 150mm ∅ weighing pan
- Incorporates a tare facility
- Model 393-50 has an additional data hold facility
- Requires a 9V PP3 alkaline battery

Model	GB-2K	GB-5K
Range	0 to 2kg/0 to 4lbs	0 to 5kg/0 to 4lbs
Resolution	1g/0.1 oz	5g/0.1 oz
Accuracy	±0.15%	±0.25%

220953

	Order Code	1+	3+	6+	+	+
GB-2K	723-0503	105.00	99.75	94.77	--	--
GB-5K	723-0515	117.00	111.15	105.60	--	--
Power Adaptor	723-0527	22.50	21.39	20.93	--	--

Compact Scales HL



- 1 : 200 resolution
- Solid, reliable design
- Large square weighing pan, 136 x 136mm
- Clear 8mm LCD display
- Accurate reading in a wide temperature range, -10°C to +40°C
- Net weight/stability indication
- Portable (takes Type AA batteries, not included)
- Low battery indication

W=140,
D=198,
H=44.5

- Separate keys for power and re-zero
- AC adaptor available separately see Order Code 605-372

Capacity	Calibration Weight	Resolution	Non-Linearity	Repeatability	Mfrs. List No.	Order Code
0.2kg	200g	0.1g	+0.2g	+0.1g	HL-200	708-2745
2kg	2000g	1g	+2g	+1g	HL-2000	708-2757

220987

Capacity	Model	Order Code	1+	+	+	+	+
0.2kg	HL-200	708-2745	230.18	--	--	--	--
2kg	HL-2000	708-2757	230.18	--	--	--	--

Precision Scales

JB Series



Reliable, precise and easy-to-operate scales with an LCD and mains/battery operation. Ideal for commercial and laboratory use.

NEW

- 5 digit LCD display
- 150mm diameter pan
- Piece counting by weight comparison: 25, 50 or 100 pieces can be chosen as a reference.
- Percentage – for user defined weighing unit or material mixing: 25%, 50% and 100%
- Internal alarm will sound when the user preset weight is reached
- Accumulation weighing: up to 99 items can be added in one accumulation
- Digital filter to avoid unstable results
- Software calibration is provided to eliminate the need of repeated load and unload of calibration weights
- Auto-power off after a selectable time
- Mains power or internal rechargeable battery (30 hours per charge)

381161.268085

Capacity	Resolution	Mfrs. List No.	Order Code	1+	3+
600g	0.1g	JB-600	838-8830	496.22	492.71
1.5kg	0.2g	JB-1500	838-8849	496.22	492.71
3kg	0.5g	JB-3000	838-8857	496.22	492.71
6kg	1g	JB-6000	838-8865	496.22	492.71

Counting Scales



W=320, D=330, H=118

- Internal resolution up to 1:120,000 (1:30,000 mode can be selected)
- 3kg or 6kg capacity
- Two LCD displays and 10-key pad allows direct entry and simultaneous viewing of total weight, piece and count
- Integral count totalising facility
- Automatic counting with accuracy improvement ensures optimum count accuracy after initial sampling
- Target weight/count(Max. 30,000/120,000 pieces)

- Comparator function with output to display
- Battery (not supplied) or ac adaptor (supplied) operation
- Accurate reading in a wide temperature range -10 C to 40 C

Capacity	Resolution	Non-Linearity	Min. Unit Weight	Mfrs. List No.	Order Code
3kg	0.5g	+0.5g	0.1g/0.025g	HC-3KB	708-3725
6kg	1g	+1g	0.2g/0.05g	HC-6KB	708-3737

220989

Capacity	Mfrs. List No.	Order Code	1+	5+	10+	+	+
3kg	HC-3KB	708-3725	1,209.54	1,153.74	1,150.88	--	--
6kg	HC-6KB	708-3737	1,209.54	1,153.74	1,150.88	--	--

Timers

Digital Stopwatch

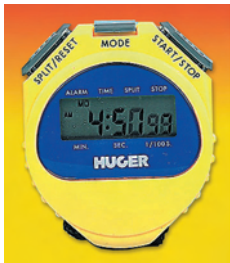


- Low cost hand held stopwatch with an 8mm hi-contrast LCD display
- Functions include stop, start split and reset
- Standard functions are clock (in 12 or 24 hour format), day, date and alarm
- Supplied with neck band and button cell battery

lin162/220955

Order Code	1+	3+	+	+
723-0576	11.25	10.68	--	--

C510 Water Resistant Stopwatch



- Large LCD display
- Split times
- Clock and Alarm
- 1/100 sec
- Water resistant
- Neck cord

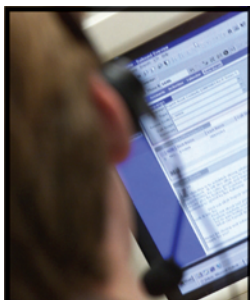
249510

Mfrs. List No.	Order Code	1+	5+
C510	323-5099	28.08	26.67



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