Hand Held Instrumentation & Data Loggers

A selection of hand held instruments for many applications including a large range of digital thermometers and Environmental Sensors.

GM700 Infrared Thermometer   XE-4001-001

This infrared thermometer is used for measuring the temperature of the object's surface.

Temperature range	-50°C to +700°C
Accuracy	0-700°C ±1.5% or ±1.5°C, -50-0°C ±3°C
Resolution	0.1°C or 0.1°F
Distance to Spot Size	12 : 1

GM300E Infrared Thermometer   XE-4000-001

This infrared thermometer is used for measuring the temperature of the object's surface.

Temperature range	-50°C to +420°C
Accuracy	±1.5°c or ±1.5%
Resolution	0.1°C or 0.1°F
Distance to Spot Size	12 : 1

GM1311 High Performance Professional Digital Food Thermometer   XE-4002-001

Temperature range	-50 to 300°C (-58 to 572°F)
Resolution	0.1°C
Accuracy	-10 to 100°C +/-1°C, 100 - 200°C, +/-1.5°C
Resolution	0.1°C/F

LCD display / Temperature lock / Max/Min measuring / Auto power off / Powered By CR2032 button battery / Conversion between °C and °F

GM1312 General Purpose Digital Thermometer   XE-3999-001

General Purpose Digital Thermometer with K, J, T, E, N, R/S modes.

Accuracy	±0.4°c or ±1%	
Resolution	0.1°C or 0.1°F	
Ranges	K –200°C to +1200°C	J –200°C to +1200°C
	T –250°C to +400°C	E –150°C to +1000°C
	N –200°C to +1300°C	R/S 0°C to +1767°C

2 channel / Auto Power Shut Off / Max/Min/Avg / 3 x AAA Battery

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Industrial Thermometer Therma 1 XE-3988-001

This thermometer is housed in a robust ABS case that contains 'Biomaster' additive that helps to reduce bacterial growth.

Temperature range	300°C to +1372°C
Accuracy	±0.4°C ±0.1%
Resolution	0.1°C & 1°C
Sensor Type	K

Temptest 1 Smart Thermometer XE-3987-001

Temptest smart thermometer with unique rotating display and fast response probe, reaches temperature in just 3 seconds!

Temperature range	-49.9°C to +299.9°C
Accuracy	±0.4°C (-49.9 to 200 °C) otherwise ±1 °C
Resolution	0.1 °C/°F
Sensor Type	K

Therma Differential Thermometer XE-3989-001

Therma differential thermometer two channel, T1 or T2 or T1 minus T2 differential. Robust waterproof case offering IP66/67 protection

Temperature range	0.1°C -99.9 to 299.9°C, 1°C 300 to 1372°C
Accuracy	±0.4 °C ±0.1 % of reading
Resolution	0.1 °C to 299.9°C thereafter 1°C
Sensor Type	K

Therma Hygrometer and Thermometer XE-3985-001

Therma Hygrometer and Thermometer - British Made low cost 6500. Measures both relative humidity and air temperature.

Range	-20 to 70°C	0 to 100% RH
Resolution	0.1°C/°F	0.1% RH
Accuracy	±1°C ± 1 digit (5 to 45°C) otherwise ±1.7°C)	
	±3% RH (10 to 90% RH)	

RayTemp 2 Infrared Thermometer XE-3941-001

RayTemp 2 Infrared Thermometer - The RayTemp® 2 features a three-button key-pad, incorporating measure, mode and max/min functions

Range	-49.9 to 349.9°C
Resolution	0.1°C and 1°C
Accuracy	±1°C (0 to 100°C0 otherwise ±2°C)
Field of View	Target ratio of 5:1

°Cal-*check* Precision Thermocouple Calibration Simulator / Checker

Various XE Numbers

The °Cal-check is a unique, novel concept for rapid, simple and convenient in-house calibration checking of thermocouple Instrumentation, eliminating the need to send it away for laboratory calibration.

The compact, low cost device, terminated with miniature, male pins is simply plugged into the input port of the instrument. Comparison of the displayed reading is compared with the value stated on the °Cal-check label to indicate the accuracy of the test instrument.

Cold Chain / Catering / Baking & Cooking / General Industrial

Thermocouple type	K or T to IEC584
Accuracy	+/-0.25°C at 23°C ambient temperature
Temperature coefficient	18-28°C ambient temperature, better than +/-0.5°C
	0-50°C ambient temperature, +/-0.5 °C
Resolution	0.1°C

MicroCal 1 Plus Simulator Thermometer

XE-3982-001

The MicroCal 1 Plus thermocouple simulator and thermometer helps ensure that the frequent checking of thermometer accuracies is a routine operation.

Temperature Points	12 adjustable presets
Accuracy	±0.3°C (dependent on thermocouple type)
Sensor Type	thermocouple type K, J, T, R, N, S & E - selectable
Battery Life	300 hours

MicroCal 1 Thermocouple Simulator

XE-3981-001

The MicroCal 1 features a custom 10mm LCD display with alpha-numeric display line to prompt the user when changing parameters.

Temperature Points	12 adjustable presets
Accuracy	±0.3°C (dependent on thermocouple type)
Sensor Type	thermocouple type K, J, T, R, N, S & E - selectable
Battery Life	300 hours

Digitron 1000TC Digital Thermometer

XE-3990-001

The 1000TC provides precise, stable readings and high accuracy even in the harshest of environments.

Range	-200ºC to 600ºC
Resolution	> -100ºC = 0.1ºC, <, 100ºC = 1ºC
Accuracy	+/-(0.1% of reading + 0.4ºF (0.2ºC))
Sensor Type	K

Reference Thermometer Calibration Thermometer   XE-3937-001

Reference Thermometer Calibration Thermometer - high accuracy PT100 instruments that are supplied with a 5-point UKAS Certificate of Calibration.

Range	-199.99 to 199.99°C
Resolution	0.01°C
Accuracy	±0.05°C (-30 to 150°C) ±0.1°C (-50 to 200°C)
Sensor Type	PT100 1/10th DIN

Therma Plus Waterproof Thermometer   XE-3984-001

The Therma Plus hand held thermometer is housed in a robust extruded aluminium waterproof case with a white anti-bacterial/salt resistant powder coated finish offering IP66/67 protection.

Range	-99.9 to 1372°C
Resolution	0.1/1 °C auto-ranging @299.9 .1 °C
Accuracy	±0.4°C ±0.1% of reading
Sensor Type	K

Digitron 1006TC Digital Thermometer   XE-3991-001

The 1006TC provides precise, stable readings and high accuracy even in the harshest of environments. Simple to operate, fast, reliable and built to last.

Input	T
Accuracy	+/- (0.1% of reading + 0.4°F (0.2°C
Resolution	> -100°C = 0.1°C, < 100°C =
Range	-250°C to +400°C/ -418°F to +752°F

Digitron 2024T Digital Thermometer   XE-3993-001

The rugged 2024T provides precise, stable readings and high accuracy even in the harshest of environments.

Input	Pt100
Accuracy	±0.2% rdg ±0.1°C/0.2°F over range -150 to +800°C / -238 to +1472°F
Resolution	0.1° from -199.9°C to +199.9°C/-199.9°F to +392.0°F 1°C elsewhere
Display	12.7mm L.C.D

Digitron 2029T Digital Thermometer   XE-3992-001

The rugged 2029T provides precise, stable readings and high accuracy even in the harshest of environments.

Input	K, T, J, N, R/S
Accuracy	0.1% rdg ±0.2°C/0.4°F above -100°C/-148°F0.5% rdg ±0.2°C/0.4°F below -100°C/-148°F
Resolution	0.1° from -199.9°C to +199.9°C/-199.9°F to +392.0°F 1°C elsewhere
Display	12.7mm L.C.D

Digitron FM45 Digital Thermometer

XE-3994-001

The FM45 is a simple-to-use hand-held thermometer featuring a large liquid crystal display.

Input	K
Accuracy	58° to 32°F (-50° to 0°C) ±3°F (1.6°C)
	32° to 1100°F (0° to 600°C) ±(0.3% of reading, + 1.8°F (1°C))
	1100° to 2462°F (600° to 1350°C) ±(0.4% of reading, + 1.8°F (1°C))
Update rate	2.5 times per second

Multi-Function Temperature Calibrator

XE-6080-001

The Calog TEMP Calibrator is ideal for testing, measuring and calibration of all Thermocouple and RTD based systems.

Input	K, J, T, B, R, S, E, N, U and L

Datalogging facility via SD card which is downloadable using the USB port **/** Measure, source or simulate 0 to 24 mA, -10 to 100 mV , 0 to 400.00 Ω and 0 to 2200.0 Ω **/** Pt50, Pt100, Pt200, Pt500, Pt1000, Ni100 and Ni120 type RTD sensors **/** Trend logging feature with programmable time base **/** Continuity test function

Stroboscope / Tachometer

XE-6317-001

A mains powered microprocessor based stroboscope/tachometer with a digital display, ideal for the measurement of rotational speeds of motors, pumps, fans, etc.

Display	0.3" LED, 4 digits
Accuracy	±(0.05% +1 digit)
Flash Duration	Approximately 60 to 100 microseconds
Stroboscopic flash rate	100 to 10,000 flashes per minute (FPM)
Tachometer speed rate	100 to 10,000 revolutions per minute (RPM)

Pocket Light Level Meter

XE-6320-001

The LX-101 pocket light meter is easy to use, Compact, light-weight, and excellent value.

Ranges	0-50,000 Lux. 3 Ranges
Display	13mm (0.5") LCD
Sampling Time	0.4 seconds
Operating temp	0°C to 50°C

DishTemp Dishwasher Thermometer

XE-3939-001

The DishTemp® dishwasher thermometer simulates a plate as it's cleaned and sanitised in a commercial dishwasher, accurately recording the maximum surface temperature at the touch of a single button.

Range	0 to 90°C
Resolution	0.1°C /°F
Accuracy	±0.5°C
IP Rating	IP66

DOT Digital Oven Thermometer   XE-3938-001

The DOT Digital Oven Thermometer is an easy to use cooking thermometer that displays both the current temperature and audible alarm.

Range	-50 to 300°C
Resolution	1 °C/°F
Accuracy	±1°C (-20 to 120 °C)
IP Rating	IP65

Ceiling Temperature Sensor   XE-6331-001

A ceiling sensor in modern, invisible housing design measures the temperature in the range of -30 up to +60°C in gasiform medium.

Range	-30 to +60°C
Sensor	Pt100
Protection Type	IP30
Cable	135 mm silicone cable (2x0,75 mm², max. +180°C)

Radiation Pendulum Temperature Sensor   XE-6332-001

A room pendulum sensor measures the thermal radiation in the range of -30 up to +75°C e.g. in high rooms.

Range	-30 to +75°C
Sensor	Pt100
Protection Type	IP65
Cable	2 m PVC cable (2x0,25 mm², max. +105°C) with core cable ends

Room Radiation Temperature Sensor   XE-6333-001

A radiation sensor in modern housing design measures the thermal radiation in the range of -30 up to +75°C.

Range	-30 to +75°C
Sensor	Pt100
Protection Type	IP30
Measurement Current	approx. 1 mA
Housing	ABS polymer, colour signal white like RAL 9003

Outdoor Radiation Temperature Sensor — XE-6334-001

A radiation sensor measures the thermal radiation in the range of -30 up to +75°C .

Range	-30 to +75°C
Sensor	Pt100
Protection Type	IP65
Measurement Current	approx. 1 mA
Housing	polyamide with snap closing screws, colour white RAL9010

Contacting Temperature Sensor with Clamping Band — XE-6335-001

Contacting sensor measures the surface temperature from pipes in the range of -30 up to +110°C .

Range	-30 to +110°C
Sensor	Pt100
Protection Type	IP65
Installation Band	band width 9 mm, chucking capacity 50-110 mm, galvanized steel

EL-GFX-DTC — XE-3972-001

Dual Channel Thermocouple Data Logger with Graphic Screen.

Range	-30 to 80°C (-22 to 176°F)
Resolution	0.1°C / 0.1°F
Accuracy	±0.5°C (±0.2°F)
Logging rate	User selectable between 10 seconds & 1 hour

EL-WiFi-TC — XE-3974-001

The EL-WiFi-TC sensor measures the temperature of the environment in which the probe is situated. The accuracy of the K type probe supplied is ±1.5°C. Data is streamed wirelessly over any WiFi network and can be viewed on a PC using the free software package.

Range	-270 to +1300°C (-454 to +2372°F) (probe dependent)

EL-DataPad — XE-3975-001

The EL-DataPad allows users of Lascar's EL-USB data loggers to configure their units and download data and view logging results on-the spot rather than removing the logger from the environment being measured Hend taking it to their PC.

Collects and stores data from at least 500 data loggers / View downloaded data with general trend and summary screens / Touch screen interface for navigation of menus / Stored data can be transferred to a PC/Mac via micro USB cable

EL-EnviroPad-TC   XE-3970-001

This robust easy to use handheld device takes and records temperature readings via the attached k-type probe that is supplied with the unit. A large touch screen, colour display indicates temperature.

Two modes: 'Data Logging' or 'Spot Measurement' **/** High & Low Alarms **/** 2.8" colour touch screen **/** Compatible with thermocouples type J, K, N & T **/** Downloadable data via USB

EL-USB-1   XE-3973-001

The EL-USB-1 is a USB temperature data logger with a measurement range of -35 to +80°C (-31 to +176°--F).

Range	-35 to +80°C (-31 to +176°F)
Resolution	0.5°C (1°F)
Accuracy	±1°C (±2°F)
Logging Rate	User selectable between 10 seconds & 12 hours

EL-USB-2   XE-3976-001

Humidity & Temperature USB data logger - This data logger measures and stores up to 16,382 relative humidity and 16,382 temperature readings over 0 to 100%RH and -35 to +80°C (-31 to +176°F) measurement ranges.

Range	*Temp*	-35°C to 80°C (-31°F to 176°F)
	Humidity	0 to 100%RH
Accuracy	*Temp*	0.55°C (1.04°F) typical (5 to 60°C)
	Humidity	2.25%RH typical (20 to 80%RH)

EL-USB-TC-LCD   XE-3971-001

This standalone data logger measures and stores over 32,000 temperature readings from either a K, J or T type thermocouple. The thermocouple is attached via the thermocouple socket at the base of the unit.

Range	-35 to +80°C (-31 to +176°F)
Resolution	0.5°C (0.5°F)
Accuracy	0.5°C typical
Logging Rate	User selectable between 10 seconds & 12 hours

Room Temperature Sensor   XE-6330-001

An indoor sensor in modern housing design measures the temperature in the range of -30 up to +60°C. The temperature probe can be mounted directly on-wall or onto a junction box by 2 fixing screws.

Range	-30 to +60°C
Sensor	Pt100
Protection type	IP30
Circuit type	2-wire connection

GM640 Grain Moisture Meter   XE-4010-001

The GM640 can be used to measure the moisture and temperature of different grains. It is applicable to allocating, Purchasing, storing and processing packaged grains. With this Tester, the moisture and temperature of the grains can be rapidly and exactly measured.

Measuring range: 5% -30% moisture, temperature -10°C-60°C
Maximum error: Moisture ± (1% Rh = 0.5), temp ± 2.5°C (± 5°F)
Resolution: 0.5% moisture, temperature 0-85% Rh
Operating environment: temp 0°C-40°C / Humidity 0.1-85% Rh
Size: *Meter*- 72x35x145mm **/** *Probe*:- 415x36 x36mm

Grain varieties to choose **/** Grain moisture test **/** Food temperature test **/** Grain moisture standard setting and excessive moisture Tip **/** Backlight control function **/** °C & °F **/** Battery hold function **/** Auto power off function **/** Data hold function

Digital Pen Type Thermometer   XE-3940-001

Accuracy	0.0°C to +80°C (+/-1°C or 2°F)
Measuring Frequency	1 sec, 10 sec, sleep, auto select On/Off, °C/a and hold buttons 1 °C/°F
Measuring Range	-50°C to +300°C (-58°F to +572°F)
Temperature Resolution	0.10/°F

Low battery warning **/** Memory of last measurement **/** C and F display selectable **/** 15 minute auto-shutdown option for power saving **/** Powered by 1 x AG13 battery

Folding Cooking Thermometer   XE-3966-001

Perfect for precise cooking of beef, veal, lamb, pork, chicken and turkey, ensure you have a delicious roast joint of meat for your Sunday lunch, impressing both friends and family.

This folding thermometer is also great for easily storing in kitchen draws, with the folding mechanism reducing the overall size.

- Wipe clean only
- Temperature range from -45°C to 200°C and -49°F to 392°F.
- Operates with 1 x LR44 battery (included)