LABFACILITY
TEMPERATURE & PROCESS TECHNOLOGY

Hand Held, Portable Test & Measurement Instrumentation

A versatile range of high quality, budget priced instruments for a variety of parameters including temperature, relative humidity and electrical quantities.

- Simple to use ● Accurate and reliable
- Low cost ● Available from stock ● Measure temperature, RH, LUX, rpm, sound level, air speed, capacitance plus wide range multimeter functions
- Non-contact or contact thermometry and tachometry ● 4-20mA loop simulator
- CE marked

TEMPERATURE MEASUREMENT

TM919 Infrared Non-contact Thermometer

The TM919 thermometer provides convenient, responsive, non-contact temperature measurement up to 300°C. The display provides a large, bright readout.
- Low cost ● Non-contact ● Point and read
- Large, bright display ● ±3°C accuracy

Temperature sensor	Thermopile
Range	-10°C to 300°C / 14°F to 572°F
Resolution	1°C or 1°F
Accuracy	±3% of reading or ±3°C whichever is greater. (At 23 ±5 °C ambient temperature emissivity value 0.95)
Battery	9V, PP3
Dimensions	195 x 120 x 58mm

TM914C Dual Channel Digital Thermometer

The TM914C is a low-cost, compact digital thermometer for 1 or 2 Type K thermocouple inputs.
- Dual channel ● Type K thermocouple input
- Fast response ● Rugged construction

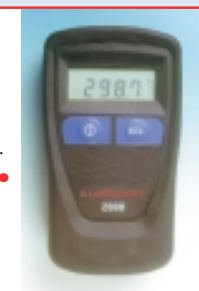|	
Input	Type K thermocouple /Dual channel
Range	-40 to 1200°C
Accuracy	±2% ±1°C up to 750°C
Resolution	1°C
Battery	9V, PP3

M2000 Digital Thermometer

The M2000 is a budget priced, high accuracy general purpose thermometer. It has a wide -200 to +1372°C range with 0.1°C resolution up to 1000°C.
- IP65 Housing ● High accuracy ● 0.1°C resolution ● User select type K,T,N,J,E,R,S ● Rugged construction

Input	Thermometer K,T,N,J,E,R,S
Range	-200 to 1372°C
Units	°C, °F, °A
Accuracy	±0.2°C ±0.15% of reading
Resolution	0.1°C up to 1000C. 1°C above.
Battery	9V, PP3
Dimensions	130 x 70 x 33mm

SOUND & LIGHT

SL4001 Digital Sound Level Meter

Easy to use, excellent value digital meter to meet the increasing demand for noise and sound monitoring. Covers 35 to 130 dB with a large easy-to-read LCD display. The meter has both "A" and "C" frequency weightings allowing accurate checking for safety regulations and acoustic analysis. Other features include selection of fast or slow response, maximum hold function, AC and DC output, and an internal calibration system.

Supplied with calibration screwdriver and full instructions. A sound level calibrator Model SC940 is available for use with the SL4001.

Range	"A" weighting 35 to 130 dB, "C" weighting 35 to 130 dB
Accuracy	Dependent on frequency weighting, typically ±3dB
Resolution	0.1dB
Frequency range	31.5Hz to 8kHz
Output	ac output 0.5 Vrms dc output 10mV/dB
Battery	9V, PP3
Dimensions	205 x 80 x 35mm

LX101 Digital Lux Meter

A pocket-size general purpose light meter supplied with a separate light sensor to allow optimum positioning. Three measuring ranges provide versatility and high accuracy; ideal for field use and to enable personnel to monitor illuminance within factories, laboratories and offices to comply with building and safety regulations. Supplied with carrying case.

Range	0 – 50,000 Lux in 3 ranges
Accuracy	±(5% + 2 digits)
Resolution	1,10 and 100 Lux, range dependent
Battery	9V, PP3
Dimensions	108 x 73 x 23mm

LX105 Digital Light Meter

The LX105 is a compact, general purpose light meter with a remote sensor to allow optimum positioning. Three measuring ranges cover a wide range of illumination. This instrument is ideal for use in factories and offices to check for compliance with building safety regulations.

- High accuracy ● High sensitivity ● Wide range measurement in LUX and foot candle units ● User selectable light source – Tungsten / Fluorescent / Mercury / Daylight ● RS232 serial interface

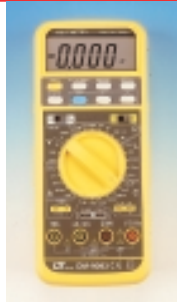|	
Range	LUX 0-50,000 in 3 ranges
	Foot candle 0-5000 in 3 ranges
	Relativity 0 to 1999% relative to range / measured value
Sensor	Photo diode & colour correction filter
Functions	Max / Min / Average / Data Hold
Communications	RS232
Battery	9V, PP3
Dimensions	180 x 72 x 32mm
	Sensor 85 x 55 x 12mm

ELECTRICAL & AIR SPEED

DM9093 Digital Multimeter with Inductance, Capacitance and Resistance Measurement

The DM9093 multimeter provides inductance, capacitance and temperature measurement in addition to a wide range of electrical parameters. This meter features RS232 communications.
- Versatile multimeter + L,C & R measurement
- Convenient, built-in temperature measurement
Built-in alarm functions ● RS 232 communications ● Max/Min readings
● Automatic zero and polarity switching ● Clear 18mm digits

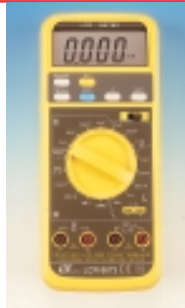|	
Units	Inductance, capacitance, resistance, Vac, Aac, Vdc, Adc, Continuity beep, diode, °C/°F, hFE, Hz
Communications	RS232
Alarms	High and low
Functions	Data hold, max/min
Battery	9V, PP3
Dimensions	204 x 90 x 36mm

LCR9073 Digital Inductance, Capacitance and Resistance Meter

The LCR9073 is a high performance LCR meter with many user functions and RS232 communications
● Wide range, accurate, inductance, capacitance and resistance measurement ● Continuity and diode test ● Data hold display ● Max/min and hold functions ● RS232 communications ● Self-calibration via internal EPROM ● Large 18mm digits
● Optional software

Ranges	Inductance, 2mH to 20H (5 ranges)
	Capacitance, 2nF to 1000mF (7 ranges)
	Resistance 200Ω to 20MΩ (6 ranges)
	Continuity beeper, Diode test
Software	Optional, windows based
Communications	RS232
Functions	Data hold, max/min
Battery	9V, PP3
Dimensions	204 x 90 x 36mm

AM4203 Digital Vane Anemometer

The AM4203 Anemometer provides quick, accurate, air speed measurement via its remote, vane sensor. The sensitive, balanced vane wheel provides good performance over a wide range of air speeds. The AM4203 is suitable for meteorology, HVAC and various industrial applications.
● High accuracy ● High sensitivity ● Supplied complete with remote balanced vane
● Wide range of air velocities ● Multi-function
● Multi-range ● Incorporates temperature measurement ● RS 232 communications

Ranges	30.0 m/s, 108.0Km/h, 5910ft/min, 60 knots, 60mph. Temperature °C/°F
Sensor	Low friction twisted vane for air velocity. Precision thermistor For temperature
Communications	RS232
Functions	Max/Min/Average reading / Data hold
Battery	9V, PP3
Dimensions	180 x 72 x 32mm. Sensor head 72mm diameter.

LABFACILITY LIMITED

HEADQUARTERS: 8 Feltham Business Complex, Browells Lane, Feltham, Middlesex TW13 7LW Tel: +44 (0)20 8818 1888 Fax: +44 (0)20 8818 1899

NORTHERN DIVISION: Units 7/8 Abbey Way, North Anston Trading Estate, Dinnington, Sheffield S25 4JL Tel: +44 (0)1909 569446 Fax: +44 (0)1909 550632

SOUTHERN DIVISION: Units 7/8, Block K, Southern Cross Industrial Estate, Shripney Road, Bognor Regis, West Sussex PO22 9SD Tel: +44 (0)1243 840999 Fax: +44 (0)1243 840555

AM4204 Digital Hot Wire Anemometer

The AM4204 is a sensitive, thermal anemometer for low air velocity measurement. The remote, slim probe is ideal for grilles and diffusers. Applications include environmental testing, clean rooms, and flow hoods.
● High accuracy ● Very high sensitivity
● Incorporates temperature measurement
● Large display indicates air velocity and temperature simultaneously ● Multi-function
● RS 232 communications

Units	m/s, km/hr, ft/min, knots, mph Temperature °C / °F
Sensor	Thermistor bead air velocity sensor plus precision thermistor temperature sensor.
Communications	RS232
Functions	Max/min/data hold
Battery	9V, PP3
Dimensions	180 x 72 x 32mm

TACHOMETERS & LOOP CURRENT

DT2239-2 Digital Stroboscope

A compact, self contained, lightweight instrument which combines simple operation, accuracy and reliability. This microprocessor based instrument is suitable for inspection and measurement of gear speeds, centrifuges, pumps and motor shafts. It is ideal for industrial maintenance, laboratories and educational demonstration of strobe action.
● Simple to use ● Precise readings ● Wide range ● Clear digital display
● Versatile

Range	100 to 10,000rpm
Accuracy	±0.05% ±1 digit
Resolution	1 rpm (10rpm > 10,000)
Power supply	Specify 110V or 220/240Vac, 50/60Hz
Dimensions	210 x 120 x 120mm

DT2236 Digital Tachometer

A unique multifunction wide range instrument for non-contact (photo) and contact use. Features include a choice of display units and a min/max memory. Supplied as a complete kit, accessories and carrying case are included.

Range	Photo tacho	5 to 99,999 rpm
	Contact tacho	0.05 to 1999.9 m/min surface speed 0.5 to 19,999 rpm.
Accuracy	±(0.05% + 1 digit)	
Resolution	Down to 0.1rpm (1rpm > 1000rpm) Down to 0.01 m/min (< 100 m/min)	
Battery	4 x 1.5V, AA	
Dimensions	215 x 65 x 38mm	
Standard accessories	Carrying case, reflecting tape marks, RPM adaptors, surface speed test wheel and manual.	

4-20mA Loop Current Calibrator

This 4-20mA calibrator is a compact, easy-to use current source for calibrating process instruments
● Compact, convenient calibrator ● 4,12,& 20mA ranges ● LED range indication ● Push button operation
● Easy to use ● LED overload indication

Ranges	4mA, 12mA, 20mA
Accuracy	±0.2mA
Load resistance	2.5kW, 4mA, 750W, 12mA, 430W, 20mA
Battery	9V, PP3
Dimensions	60 x 90 x 25mm

Specifications and availability may be subject to change