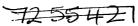
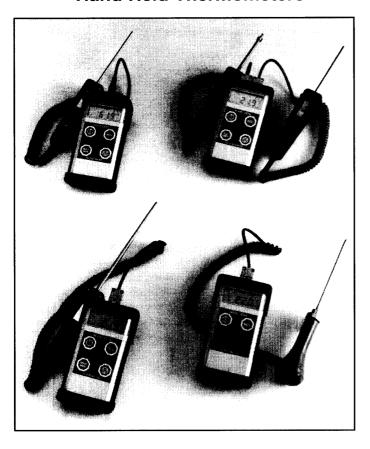
HAND HELD DIGITAL THERMOMETERS AND PROBES

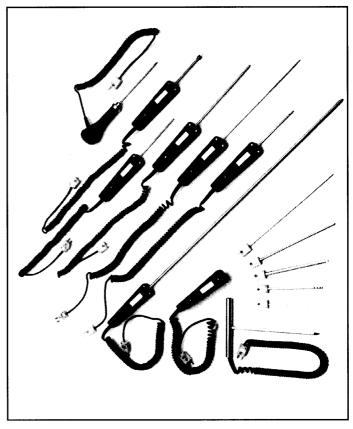


The Labfacility range includes high accuracy, compact microprocessor driven portable thermometers and a comprehensive family of hand held temperature probes to suit diverse applications.

Hand Held Thermometers



Hand Held Probes



- ◆ High accuracy, high resolution
- Rugged Construction
- ♦ Wide ambient tolerance -30 to +50°C
- ◆ Thermocouple types K,T,N,J,E and R or Pt100 ◆ Tip configuration for many applications
- ♦ Other thermocouple types available
- Versatile
- ◆ Easy to use
- ♦ Single and dual inputs
- ◆ Variants for max, min, hold, differential
- Long battery life

- Very wide range
- ◆ Type K and Pt100 sensors
- **♦** Other thermocouple types to order
- ◆ All with handle, 1.5m coiled lead and miniature connector
- **♦** Plug-in probe versions
- ◆ Special applications catered for
- ◆ For use with Labfacility or other instruments



LABFACILITY LIMITED

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Teddington Certificate No. 4746

HAND HELD DIGITAL THERMOMETERS AND PROBES

HAND HELD THERMOMETERS

The 2000L Series digital thermometers are rugged, compact, high accuracy instruments with many user features. They are housed in a tough ABS case with a shock-resistant themoplastic rubber holster for additional protection. The microprocessor based instruments feature a custom bright multi-function LCD display and an easy-to-use keypad. A unique feature is the wide ambient temperature range capability, -300C to +50°C ideal for the food industry and other demanding applications where chilling is an everyday ocurrence.

Open circuit sensor detection and "low battery" warning are featured in all of the instruments.

2000L Low Cost General Purpose Thermometer For Thermocouples

A budget priced, high accuracy microprocessor based instrument, the model 2000L is simple to use and has a wide -200 to +1372°C range. Resolution is 0.1°C up to 1000°C and the user can select thermocouple types K,T,N,J,E or R and display in °C or °F.



2010L Versatile Thermocouple Thermometer

The 2010L thermometer has all the features of the 2000L model but has extended versatility. Additional features include a switchable °C/°F/K display and a special display for Max/Min/Hold values in addition to real-time measurement. Resolution is 0.1°C up to 1000°C and the user can select thermocouple types K,T,N,J,E or R





2020L Differential Thermocouple Thermometer

The 2020L is designed for applications which require direct or differential measurement. The many features include dual inputs, differential display, simultaneous display of both inputs and display hold. The readout can be switched between °C/°F/K and the measurement range is -200 to + 1372°C. Resolution is 0.1°C up to 1000°C and the user can select thermocouple types K,T,N,J,E or R.



2050L Versatile Thermometer for Pt100 Sensors

The 2050L thermometer provides a precise temperature display in °C/°F/K units and with Max/Min/Hold functions on an additional display. The measurement range is -200 to +850°C with a resolution of 0.1°C. A 4-wire connection ensures optimum accuracy and excellent long term stability is achieved with this microprocessor based instrument.

SPECIFICATIONS For 2000L Series Thermometers

Sensor Type	Range	Accuracy	Sensor Type	Range	Accuracy
Thermocouple K	-200 to 1372°C	±0.2°C ±0.15% of reading	Thermocouple R	-50 to 200°C	±0.8°C ±0.6% of reading
Thermocouple J	-200 to 1200°C	±0.2°C ±0.15% of reading		200 to 1767°C	±0.8°C ±0.3% of reading
Thermocouple E	-200 to 1000°C	±0.2°C ±0.15% of reading	Thermocouple N	-200 to 1200°C	±0.2°C ±0.15% of reading
Thermocouple T	-200 to 400°C	±0.2°C ±0.15% of reading	Pt100	-200 to 850°C	±0.2°C ±0.1% of reading

Other thermocouple types can be supplied to special order

Model	2000L	201OL	2020L	2050L	
Ambient Range	-30 to +50°C	-30 to +50°C	-30 to +50°C	-30 to +50°C	
Sensor Types	K,T,N,J,E,R	K,T,N,J,E,R	K,T,N,J,E,R	Pt100	
Temperature Scales	°C/°F	°C/°F/K	°C/°F/K	°C/F/K	
Features	Standard	Max,Min,Hold	Channel 1,2 or Diff, Hold	Max,Min, Hold	
Resolution	0.1° to 1000°, 1° above 1000° (auto ranging)				
Battery	PP3				
Battery Life	Greater than 200 hours				
Dimensions	130 x 70 x 33mm				

Low Cost Portable Digital Thermometer TM902C A budget priced lightweight hand-held digital

A budget priced lightweight hand-held digital thermometer for use with any type K thermocouple.

- Digital display
- Pocket-size, lightweight
- ◆ Automatic cold junction compensation
- ◆ "Low battery" indication
- ♦ Wide range -50°C + 1200°C



SPECIFICATIONS For TM902C

Input/Sensor	Type K thermocouple	Accuracy (at 23±5°C)
Range	-50°C to + 1200°C	0 to 500°C ±(0.75% + 1°C)
Resolution	1°C	500 to 750°C ±(1% + 1°C)
Size	105 x 70 x 20mm	750 to 1000°C ±(2% + 1°C)
Battery	9V	1000 to 1200°C ±(4% + 3°C)

708-1170/1182/1194/1200

HAND HELD DIGITAL THERMOMETERS AND PROBES

HAND HELD PROBES

K Type Surface, Immersion and Air Temperature Thermocouples

All of these probes have stainless steel sheaths with a moulded handle and 1.5 metres of coiled extension cable terminated in a miniature thermocouple plug for use with Labfacility instruments.



Model A	Surface tempera	ture spring loaded thermocouple with copper disc tip	ORDER CODE
		e 4.7mm dia x 80mm Tip 4mm dia	A-K
Model B	•	ture spring loaded thermocouple as Model A but with right angled probe	ORDER CODE
	Max 850°C. Prob	e 4.7mm dia with 75mm hot leg and 200mm cold leg	B-K
ν <u>Τ</u> α			
Model C		ture fast response thermocouples with ceramic tip and coiled element e 7.9mm dia x 100mm. Coiled element dia 5.5mm	ORDER CODE
Model D	Surface tempera	ture fast response thermocouple as Model C but with right angled probe.	ORDER CODE
	•	e 12.7mm dia x 20mm hot leg and 4.7mm dia x 190mm cold leg	D-K
Models E1,E2, E3	• •	high temperature mineral insulated thermocouples with insulated ins. Flexible sheath.	ORDER CODE
	Max 1100°C(tip)	Model E1: 100mm x 1 .5mm dia	E1 - K
		Model E2: 200mm x 3.0mm dia Model E3: 500mm x 6.0mm dia	E2 - K E3 - K
Models F1, F2	Chisel tip rigid th	ermocouple for semi-solid materials (eg. food, plastics, rubber).	ORDER CODE
.,,,,,	Max 350°C	Model F1: 75mm x 1.8mm dia	F1 - K
		Model F2: 1 00mm x 3.2mm dia	F2 - K
Model L 000	Fast response q	as/air temperature thermocouple with cross drilled holes in	ORDER CODE
	sheath around ex	posed measuring junction.	L-K
	Max 750°C. Prob	e 4mm dia x 90mm	
Model M	General Purpose	e, economy thermocouple.	ORDER CODE
	•	e 4.8mm dia x 150mm	M - K
Model G	Heavy Duty Pene	etration thermocouple with pointed tip for pushing into solid material	ORDER CODE
	such as frozen me	eat and bitumen.	G - K
	Max 350°C Probe	e 6mm dia x 150mm	
Ų			
Model Q		tion probe with "pencil-point" tip for immersion in liquids, semi-solids, foods with special comfortable handle (see cover photograph)	ORDER CODE Q - K
		e 3.2mm dia x 105mm	W = 14
Note: al	tornative therman	ounle tunes can be cumplied to angular arder (o.g. tunes T. Leta)	

Note: alternative thermocouple types can be supplied to special order (e.g. types T, J etc).

708 1595/1601/1613/1625/1637/1649

HAND HELD DIGITAL THERMOMETERS AND PROBES

Interchangeable, plug-in, Type K thermocouples with host handle (Tips as hand held probes overleaf)

All of these probes have stainless steel sheaths terminated in a miniature thermocouple connector and plug into a moulded handle via a built-in thermocouple socket. The handle is supplied with 1.5 metres of coiled extension cable terminated in a miniature thermocouple plug for use with Labfacility instruments.



MODEL HH-PL

Handle for use with plug-in probes with type K cable and miniature plug.

ORDER CODE

ORDER CODE

A-PL-K

C-PL-K

L-PL-K

E1-PL-K

E2-PL-K

F1-PL-K

F2-PL-K

ORDER CODE

ORDER CODE

ORDER CODE

ORDER CODE

MODEL A-PL

Surface temperature spring loaded thermocouple with copper disc tip.

Max 850°C. Probe 4.7mm dia x 80mm

MODEL C-PL

Surface temperature fast response thermocouple with ceramic tip and coiled element.

Max 900°C Probe 7.9mm dia x 100mm

MODEL L-PL

Fast response gas/air temperature thermocouple with cross drilled holes in sheath

around exposed measuring junction.

Max 750OC Probe 4mm dia x 90mm

MODELS E1-PL, E2-PL

General Purpose mineral insulated thermocouples with insulated measuring junctions.

Flexible sheath

Max 1100°C

Model E1-PL: 100mm x 1.5mm dia Model E2-PL: 200mm x 3.0mm dia

MODELS F1-PL, F2-PL

Chisel tip, rigid thermocouple for semi-solid materials (e.g. food, plastics, rubber).

Max 350°C

Model F1-PL: 75mm x 1.8mm dia Model F2-PL: 1 00mm x 3.2mm dia

MODELS M-PL

General purpose thermocouple

Max 350°C. Probe 4.8mm dia x 150mm

ORDER CODE

ORDER CODE

ORDER CODE

ORDER CODE

ORDER CODE

ORDER CODE

RTA

RTB

RTC

RTD

RTE

M-PL-K

Note: Alternative thermocouple types can be supplied to special order (e.g. types T, J etc).

Pt100 Surface, Immersion and Air Temperature Probes

All of these probes have stainless steel sheaths with a moulded handle and 1.5 metres of coiled extension cable. All use 4 wire configuration and have a detector accuracy to BS1904:1984 Grade B. Closer tolerance detectors can be used to special order.

Pt100 sensors are supplied without connectors as standard. connector suitable for Labfacility Model 2050L can be fitted at extra cost.



MODEL RTA

Fast response, general purpose immersion probe. Max 350°C Probe 4.0mm dia x 100mm

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Needle probe resistance thermometer for penetration applications.

Max 250°C. Probe 2.4mm dia x 75mm

MODEL RTC

MODEL RTB

General purpose, high temperature probe Max 500°C. Probe 4.7mm dia x 200mm

MODEL RTD

••••

Air temperature probe with vented outer radiation shield.

Max 250°C Probe 6mm overall dia x 150mm

MODEL RTE

Heavy duty penetration probe with pointed tip. **Max 350°C. Probe 6mm dia x 150mm**

Specifications and availability may be subject to change

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