

LABFACILITY L200 USB HIGH PRECISION DIGITAL THERMOMETER/DATA LOGGER

The Labfacility L200 Pt100 and thermocouple thermometer can be used in conjunction with a PC to provide accurate, versatile 8 channel thermocouple and Pt100 temperature measurement, scanning and logging of measured values. It can also be used as a "stand alone" indicator/logger and incorporates a digital display of measured temperature.

The in-built, self-calibration facility for the thermocouple version is a rapid and convenient method for on-site calibration and does not require any additional equipment other than a special, external link. Self-calibration of Pt100 ranges is equally simple and uses plug-in precision resistors.

The L200 is designed to provide exceptional stability with high measurement resolution and represents an ideal crossover between plant practicality and laboratory performance at a very competitive price.

The PC software supplied with the instrument allows control, measure and calibration functions.

- Low cost – high performance
- USB PC interface
- 8 thermocouple (type J,K,T,E,N,R,S & B) or Pt100 (3 wire) inputs
- Built-in display for selected channel or all channels auto-scrolling
- Resolution 0.1°C on L200 display, 0.01°C in software
- Self-calibration feature
- Select °C / °F
- PC software included for remote control and measure, logging and calibration



- Simple operation
- CE marked
- RoHS compliant
- 2 year warranty

Applications

- ◆ Food preparation ◆ Storage facilities ◆ Educational establishments ◆ Environmental ◆ R&D
- ◆ Heating & ventilation setup ◆ Building & energy management ◆ Instrumentation laboratories
- ◆ Experimentation ◆ Refrigeration/freezer plant monitoring ◆ Museums and Galleries

www.L200temperaturemonitor.co.uk

 **LABFACILITY**
TEMPERATURE & PROCESS TECHNOLOGY

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Specification at an ambient temperature of 20°C

Input / Ranges

Thermocouple to IEC 584

Type J	-200°C to 750°C
Type K	-200°C to 1200°C
Type T	-200°C to 350°C
Type E	-200°C to 900°C
Type N	0°C to 1300°C
Type R	0°C to 1760°C
Type S	0°C to 1760°C
Type B	300°C to 1800°C

Pt100 to IEC751, 3 wire -200°C to 850°C

Note: all inputs are non-isolated and sensors must be of insulated construction.

Accuracy

Thermocouples J K T E & N

better than +/- 0.1°C +/-0.1% of range -100°C to span (Zero to span Type N) +/-0.15% of range -101 to -200°C (J K T & E)

Thermocouples R S & B

better than +/-0.1°C +/-0.15% of range

Linearisation

±0.05°C

Pt100 range

better than ±0.05°C ±0.1% of range

Zero drift

±0.01% of span per °C

Span drift

±0.01% of span per °C

Display

LCD, backlight

Display resolution

Thermocouple ranges 0.1°C
Pt100 range 0.01°C

User interface

Front panel key for channel No. or auto-scan selection. PC software for all other functions.

Indication

Channel No., measured temperature (°C or °F)

Reference junction compensation for thermocouples

Automatic, accurate reference junction compensation is incorporated for thermocouple ranges

Self calibration

User facility incorporated. The instrument auto-calibrates on every A/D cycle *

Sensor open circuit detection & indication

Upscale indication
Independent alarms should be used for Process safety if required

Ambient operating temperature

0 to 50°C

Storage temperature

-20°C to 70°C

Display

LCD with backlight

Input Terminations

8 x thermocouple: mini connectors
8 x Pt100, terminal blocks

PC Interface

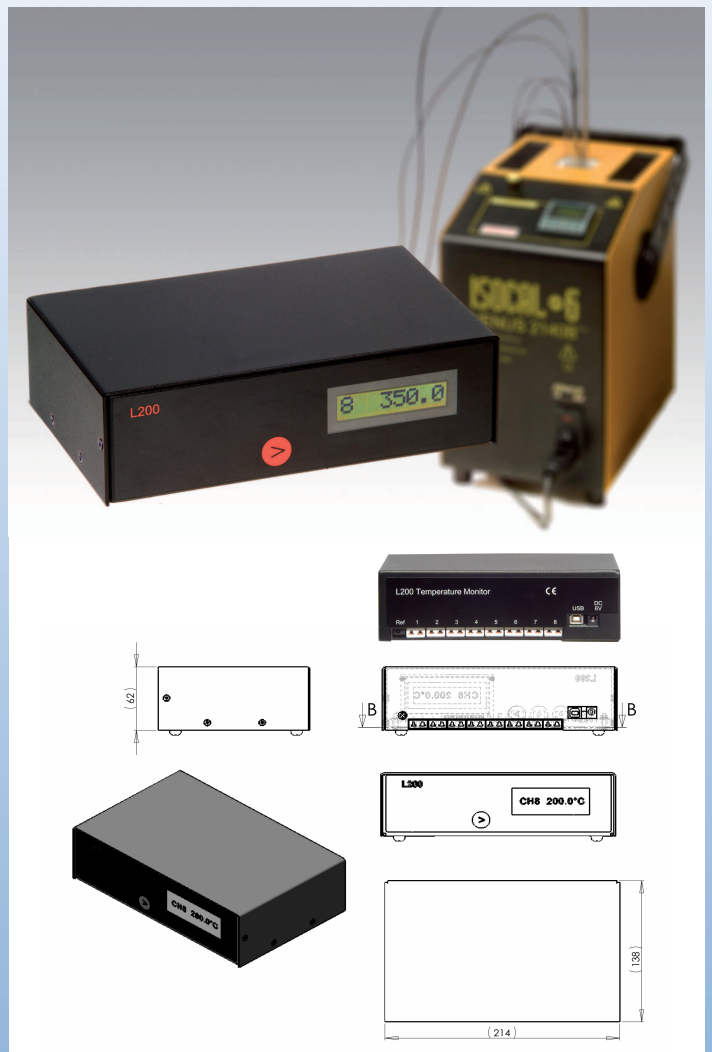
USB

Power supply

6Vdc (5.5-9.0V) via universal mains adaptor (supplied) 120-250V 50/60Hz

Logging interval

5 seconds to 1 hour



On-board memory
PC software

512 sets of readings
Supplied as standard on CD-ROM
Remote control & measure:-
Log readings to file
Download to PC
Logging, calibration

** The integral, self-calibration facility for the thermocouple version is a rapid and convenient method for on-site calibration and does not require any additional equipment other than the special, external link (optional). Self-calibration of Pt100 ranges is quickly and conveniently performed using plug-in precision resistors (optional). Traceable calibration can be achieved by the user conveniently and without recourse to a accredited Laboratory if there is access to a certified DVM; this can be used to measure the L200 internally generated calibrated Voltage via the "cal port" presented externally to the instrument case. Considerable time and cost saving are achieved by this method.*

Ordering

Thermocouple input x8	L200-TC-00
Pt100 input x8	L200-PT-00
Custom calibration	details on application
Standard accessories	The L200 is supplied with a power supply adaptor, USB lead, PC software, and instruction manual (on CD). L200-TC includes external link.

Specifications may be subject to change



LABFACILITY LIMITED

www.labfacility.co.uk

SOUTHERN UK & EXPORT DIVISION: Units 5,6 & 7, Block K, Southern Cross Industrial Estate, Shripney Road, Bognor Regis, West Sussex PO22 9SE **Export Sales:** tel: +44(0)1243 871287 fax: +44(0)1243 871281 email: exportsales@labfacility.co.uk

Southern UK Sales: tel: +44(0)1243 871280 fax: +44(0)1243 871281 email: southernsales@labfacility.co.uk

NORTHERN UK DIVISION: Eden Place, Unit 3b Outgang Lane, Dinnington, Sheffield S25 3QT

Northern UK Sales: tel: +44(0)1909 569446 fax: +44(0)1909 550632 email: northernsales@labfacility.co.uk

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