

Thermometers

Digital Thermometers, C2000 Series

A range of compact, high accuracy, microprocessor controlled digital thermometers offering enhanced specifications at a competitive price.

- ◆ Choice of Pt100 or thermocouple sensor input models
- ◆ Waterproof, rugged ABS casing to IP67 standard
- ◆ Very wide ambient temperature operating range, -30 to +50°C
- ◆ High contrast LCD and user-friendly keypad operation
- ◆ Secondary display feature on Models C2010, C2020 and C2050
- ◆ Thermocouple sensor models feature user selection of probe type input via the keypad (types K, J, E, T, R or N thermocouples selectable)
- ◆ Dual input thermocouple model available with differential display (Model C2020)
- ◆ Open circuit sensor detection and "low battery" warning featured on all models

Range Specifications

| Sensor input | | Measurement ranges* °C | Accuracy °C (at ambient 23°C) |
|---------------|---|------------------------|-------------------------------|
| Thermocouples | K | -200 to +1372 | ±0.2 ±0.15% of reading |
| | J | -200 to +1200 | ±0.2 ±0.15% of reading |
| | E | -200 to +1000 | ±0.2 ±0.15% of reading |
| | T | -200 to +400 | ±0.2 ±0.15% of reading |
| | R | -50 to 200 | ±0.8 ±0.6% of reading |
| | N | >+200 to +1767 | ±0.8 ±0.3% of reading |
| Pt100 | | -200 to +850 | ±0.2 ±0.1% of reading |

* These are the display capabilities of the instruments only, measurable range will depend on the thermocouple probe used - please contact us if you require a probe for use outside our standard range.

General Specifications

| Model | C2000 | C2010 | C2020 | C2050 |
|-------------------------|--|-------------------|----------------------------------|-------------------|
| Sensor inputs | K, J, E, T, R, N | K, J, E, T, R, N | K, J, E, T, R, N | Pt100 |
| Temperature scales | °C, °F | °C, °F, °A | °C, °F, °A | °C, °F, °A |
| Resolution °C, °F, °A | 0.1 (range 1000), 1 (range >1000) — all models | | | |
| Additional features | — | Max./min. Hold | Twin inputs, Difference, Hold | Max./min. Hold |
| Power | 9V PP3 Alkaline battery — all models | | | |
| Dimensions W x D x H mm | 70 x 130 x 33 — all models (meter only) | | | |

Digital Thermometer, Model C2000

Budget level, general purpose instrument for use with thermocouple sensor probes. °C or °F display selectable. Supplied with rubber surround, 9V battery and instructions. Without sensor probe.

TJ105-10 C2000

Digital Thermometer, Model C2010

Generally as TJ105-10 but with additional °A display selection and max./min./hold feature on a secondary display whilst real-time measurement continues on the primary display. Without sensor probe.

TJ105-20 C2010

Digital Thermometer, Model C2020

For direct or differential measurement applications. Generally as TJ105-20 but with dual thermocouple inputs. Simultaneous display of both inputs or differential measurement reading on the primary display, whilst input 1 readings continue on the secondary display (thermocouple inputs must be of the same type). A hold facility is also provided. Without sensor probes.

TJ105-30 C2020

Digital Thermometer, Model C2050

High accuracy Pt100 thermometer with long-term stability, four wire system, °C, °F, °A display selection, max./min./hold feature with secondary display. Without sensor probe.

TJ107-25 C2050

BL610-25 Spare 9V battery

Accessory sensor probes – see following page.

