Digital Temperature Display

Type TTD

Application.
The Benney digital temperature indicator is ideally suited where local display is required. The main feature being that a power supply is not required, as it runs from Lithium batteries lasting 3 years minimum or maybe loop powered. A large range of Benney temperature probes can be fitted to the display, directly or remotely via stainless steel armour.

Configuration.
316L stainless steel case with rear or bottom entry, surface or remote mount fitted with 316L stainless steel probes. Options for this unit include a in-built loop powered 4/20mA transmitter. In-built RTD PT-100 output.

Process Connection.
¼''' BSPT
½'' BSPT.
½'' BSPP captive nut.
¾'' BSPP captive nut.
1 ½'' Triclover.
2'' Triclover.
1 ½'' BSM (flat face with nut).
2'' BSM (flat face with nut).
1 ½'' BSM (recessed face with nut).
2'' BSM (recessed face with nut).
Other process connections available.

Case Materials.
316L stainless steel

Lens Material.
Standard: Polycarbonate lens.

Wetted Materials.
316L stainless steel.

Rating.
Certified IP66 & 67.

Operating Temperature for display.
-20 to 75˚C

Measurement Elements / Accuracy.
Standard: +/- 0.06% @ 0°C.
High accuracy (Optional): +/-0.01% @ 0°C.

Probe Lengths.
Made to order.

Cable Length.
Made to order.

Battery Powered LCD Display.
- 3.6 V lithium AA battery
- Four digit LCD 12mm high
- Security pass code protection
- Sensor type PT-100, K, J, T, R, S, E, L, N or B
- Temperature ˚C or ˚F
- User offset; intended to offset the displayed temperature
- Display resolution; 1, 0.1, 0.01 or 0.001˚C
- Configuration menu time out adjustment
- Low battery alarm via display
- Reset to factory default
- Easy on-site recalibration when required
- Measuring range:
  PT-100; -100 to 800˚C
  Thermocouple; -200 to 1800˚C
- Accuracy
  PT-100; +/-0.2˚C +/-0.1% of reading
  Thermocouple;+/-0.1% of full scale or +/-0.5˚C

Loop Powered LED Display.
- Input 4-20mA
- Four digit LCD 12mm high
- Security pass code protection
- Linearity type; square root or user interpolation
- Input scaling; the displayed PV values that correspond to the mA input signal
- Input scaling type; manual (user edits 4/20mA PV values via keypad) or automatic (user applies hi/lo mA signals, then device performs auto-scale).
- User interpolated data; up to 20 co-ordinate pairs
- User offset; intended to offset the displayed
- Display resolution; 1, 0.1, 0.01 or 0.001
- Configuration menu time out adjustment
- Reset to factory default
- Easy on-site recalibration when required
- Accuracy +/-0.01% of full scale
- Loop drop <4.0 V @ 20mA

Options:
In-built transmitters for 4/20mA loop output.
See www.benney.com.au for 4/20mA output specifications.