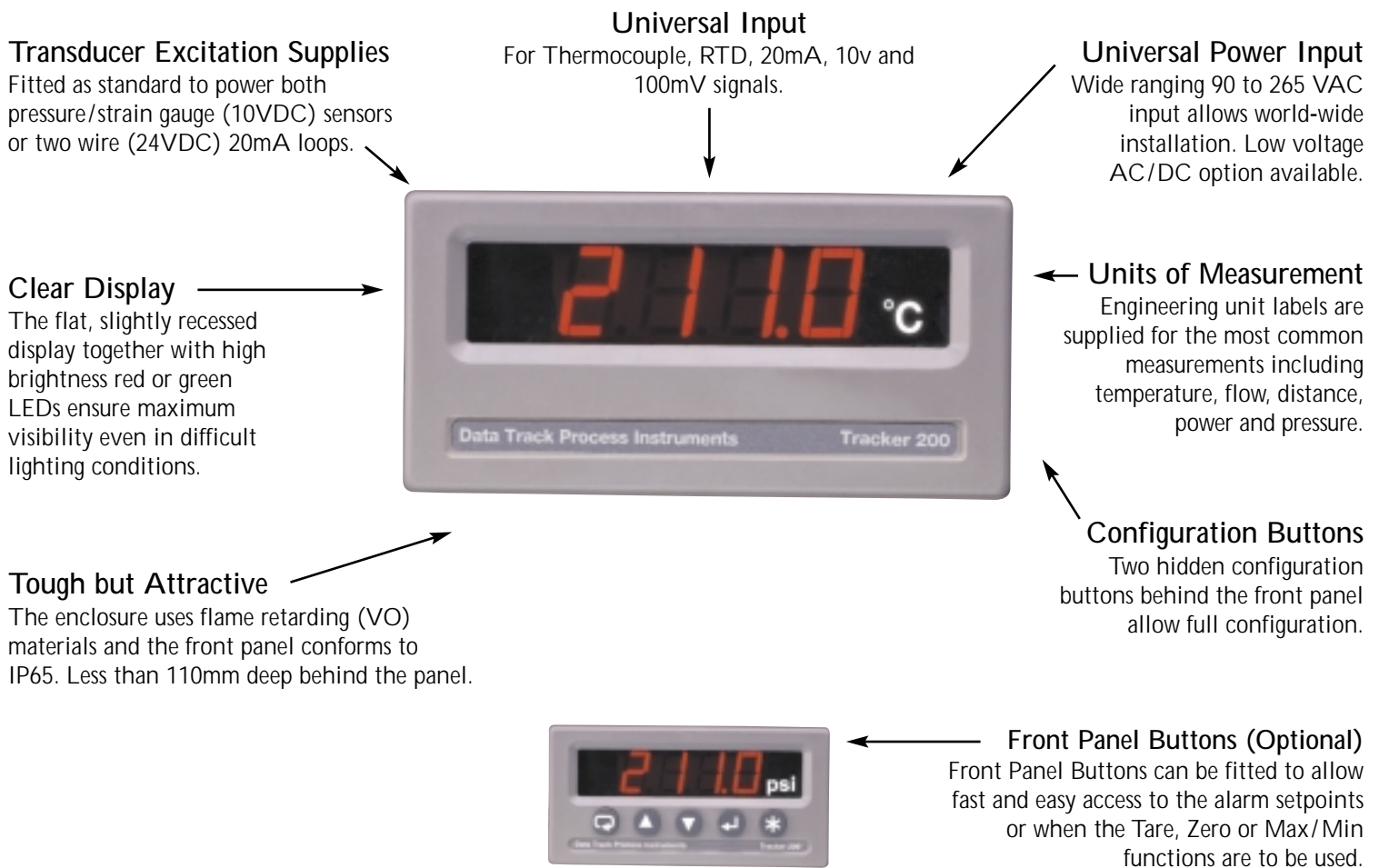


TRACKER 211 PANEL INDICATOR

- Low Cost
- Transmitter & Transducer Supplies
- One Relay Fitted as Standard
- Bright Four Digit Display (Red)
- Easy Stock Holding
- IP65 Front Panel
- Universal Mains Power
- 110mm Deep
- Standard 1/8th DIN size
- Available With or Without Front Panel Buttons

OPTIONS

- Green Display
- Isolated Analogue Output
- Low Voltage DC/AC Power Supply Option
- Up to 3 Alarm Relays

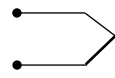


The Tracker 211 indicator is designed for cost conscious "no frills" applications in demanding industrial environments. With the universal input, stock/spares holding is kept to a minimum. The Tracker 211 can be used for measurement and display only applications, as an alarm trip and can act as a transmitter with the analogue output option. An alarm relay is fitted as standard with a further two available as options. The Tracker 211 is styled to match other Tracker 200 series indicators.

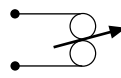


Tracker 211 indicators have been tested and comply with the European Electromagnetic Compatibility Directives and safety requirements. The units are CE marked.

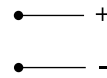
TRACKER 211 FEATURES



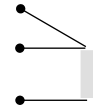
Thermocouple



mA



mV/Voltage



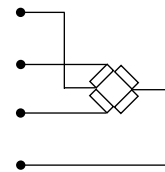
3 Wire RTD

Universal Input

The Tracker 211 can be directly connected to most popular process sensors including Thermocouple, RTD, 20mA loop Transmitters, DC signals up to 100mV and 10V. Temperature can be displayed in °C or °F to 0.1 degree resolution. Millivolt, 10 Volt and 20mA DC signals can be scaled to engineering units using any portion of the -1999 to 9999 display range (with an adjustable decimal point position). There are six linearised thermocouple ranges for types K, T, J, N, R and S. Thermocouple inputs have automatic cold junction compensation (CJC) with up-scale sensor burnout detection. Two RTD ranges are available. Zero, Tare and Max/Min memory functions are available on versions fitted with front panel buttons.



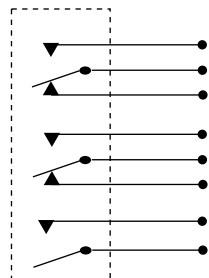
24VDC Loop Supply



10VDC Strain Gauge Supply

Sensor Excitation

An isolated 24VDC transmitter supply is provided as standard to provide power for 2 wire (4-20mA) sensors. In addition a regulated 10VDC (50mA) output is provided for strain gauge type sensors such as pressure transducers and load cells.



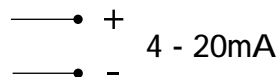
N/O
Com
N/C
ALARM 1 (Fitted as standard)

N/O
Com
N/C
ALARM 2

N/O
Com
ALARM 3

Alarm Relays

The Tracker 211 has one alarm relay fitted as standard and can be fitted with up to three alarm relays. Setpoints can be set at time of configuration or can be adjusted using the hidden buttons behind the front panel. If the setpoints are to be adjusted frequently, front panel buttons can be fitted as shown above. Each alarm can be configured to be high or low acting.



4 - 20mA

Analogue Output (Optional)

The measured value can be transmitted as a linear 4-20mA signal to other devices such as chart recorders or data loggers. The output can be scaled to any portion of the display range e.g. 4-20 mA = 500 to 800 (psi). The analogue output always follows the displayed value, so when using Thermocouples and RTDs, the analogue output is linear to temperature.



Configuration

The instrument can be configured using concealed buttons, which are situated behind the front panel. The Tracker 211 prompts the user for each set-up parameter. For users that need to configure many units, a Windows compatible software program is available for set-up, storage and downloading to the Tracker 211. A special adapter lead can be provided to connect an RS232 interface on the computer to the programming port on the Tracker 211.

Display

Type: 14.2mm high brightness red LED (green option)
 Range: 4 digit (-1999 to 9999)
 Update rate: 2 per second

A/D Converter

Type: Dual slope integrating with auto zero
 Conversion rate: 100ms
 Common mode rejection: >150dB
 Series mode rejection: >70dB (50 & 60Hz)

Thermocouple Inputs

CJC Accuracy: Better than 1°C after 30 minutes
 Open circuit sensor detection: Upscale
 Engineering units: °C or °F
 Measurement resolution: 1 or 0.1°C/°F

Thermocouple	Accuracy Including Linearisation		
	Range (°C)	Worst case	Typical @ 25°C
Type J Fe/NiCu	-210 to 1200°C	±1.0°C	±0.5°C
Type K NiCh/NiAl	-270 to 1372°C	±1.0°C	±0.5°C
Type T Cu/CuNi	-270 to 400°C	±1.0°C	±0.5°C
Type N Nicrosil-Nisil	-200 to 1300°C	±1.0°C	±0.5°C
Type S Pt10%-RhPt	-50 to 1767°C	±2.0°C	±1.2°C
Type R Pt13%-Rh Pt	-50 to 1767°C	±2.0°C	±1.2°C

Resistance Thermometers

Configuration: 3 wire
 Excitation current: 0.25mA (nominal.)
 Engineering units: °C or °F
 Measurement resolution: 1 or 0.1 °C or °F

RTD Type	Accuracy Including Linearisation		
	Range (°C)	Worst case	Typical @ 25°C
Pt100 (alpha=385)	-200 to 850°C	±0.8°C	±0.5°C
Pt100 (alpha=392)	-200 to 457°C	±0.8°C	±0.5°C

Maths Functions (Front panel buttons must be fitted)
 Tare or Zero (programmable), Max/Min Memory.

Safety and EMC

Safety: EN61010
 Susceptibility: EN50082-2
 Emissions: EN50081-1
 CE Certified 2000



Voltage & Current Inputs

Ranges: ±20mA, ±100mV, ±10V DC.
 Scaling: Any portion of the display range (decimal point in any position)
 Accuracy: ±0.1% (worst case), 0.05% typical @ 25°C ambient
 Drift with temperature: <200ppm/°C
 Impedance (Ohms): <5(mA), >100M(mV), >1M(Volt)

Analogue Output (Option)

Output: 4 to 20mA
 Maximum output: 22mA
 Temperature drift: <200ppm
 Accuracy: 0.4% of span (worst case),
 0.2% typical @ 25°C ambient
 Maximum load: 500 Ohms
 Resolution: 0.02mA

Alarm Relays (Relays 2 & 3 are optional)

Relays 1 & 2: Change over contacts
 Relay 3: Normally open contacts
 Rating (all relays): 1 Amp @ 250VAC, 5 Amp @ 30VDC.

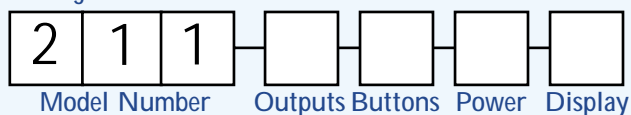
Physical/Mechanical

Front panel: Protection to IP65
 Dimensions (mm): 48(H) x 96(W) x 100(D)
 Panel cut-out (mm): 45(H) x 93(W)
 Weight: 0.4Kg (max), packed weight 0.55Kg

Environmental

Temperature: 10-50°C operating, -10 to 70°C storage.
 Humidity: 0-95% RH non condensing.

Ordering Code



Outputs A One Alarm Relay (Fitted as Standard)
 B Two Alarm Relays
 C Three Alarm Relays
 D Analogue Output (1 Relay Fitted as Standard)
 E Analogue Output + 1 Alarm relay (2 relays in total)
 F Analogue Output + 2 Alarm relay (3 relays in total)

Buttons N = Not Fitted B = Fitted

Power 1 = 90-256VAC (50/60Hz), 2 = 10-32VDC/AC

Display R = Red (Std), G = Green (Optional)

Example 211-D-B-1-R

Tracker 211 with 1 Alarm Relay, Analogue Output and Front Panel Buttons fitted. Mains powered with Red Display

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