TRACKER 211
Low Cost Digital Panel Indicator

A Budget Priced Universal Input Panel Indicator for Temperature and Process Measurement
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.
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.

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.

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.

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.
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

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

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

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.

Specifications subject to change without notice. All trademarks acknowledged.