

TRACKER 232 1/32 Din Digital Panel Indicator

Issue - October 2002



A small indicator, packed with features

Where space is limited, the Data Track 232 indicator will meet most requirements. A front panel size of only 24x48mm and a depth of only 96mm, means that space can be kept to an absolute minimum. Even though it is small, its bright red LED display remains highly visible.

No compromise in specification

Although extremely compact, specification has not been compromised. Like larger units in the Data Track range, the unit will accommodate universal inputs for thermocouple, RTD, voltage and mA signals. Standard features include two alarms with relay outputs.

Durability as standard

IP65 front panel protection, plus all the relevant approvals, means that the Tracker 232 is robust enough for most industrial applications. The quality and reliability of the unit allow Data Track to provide a full 2 year warranty.

Small size, low cost

The unit is compact, fully featured, robust, easy to install, simple to use and very affordable.

Display

Type: 0.4" (12mm) high red LED
Range: 4 digit (...1999 to 9999)

Input

Input types: See table below
Accuracy: See table below
Sample rate: 5 per second
Normal mode rejection: 60db
Common mode rejection: 120db
Sensor break (Thermocouples): Upscale
Voltage input impedance: 100k Ohms
Cold junction compensation: 0.1°C per 1°C ambient

Sensor	Input Type	Range	*Accuracy
J	Iron-Constantan	-50 To 999°C	±2°C
K	Chromal-Alumel	-50 To 1370°C	±2°C
T	Copper-Constantan	-270 To 400°C	±2°C
E	Chromal-Constantan	-50 To 750°C	±2°C
B	Pt30%RH/ Pt6%RH	330 To 1800°C	±3°C
R	Pt13% RH/Pt	0 To 1750°C	±2°C
S	Pt10% RH/Pt	0 To 1750°C	±2°C
N	Nicrosil-Nisil	-50 To 1300°C	±2°C
RTD	Pt100 (3 Wire)	-200 To 400°C	±0.4°C
Linear	0 / 4 To 20mA DC	-1999 To 9999	±0.05%
Linear	0 To 1 Volt DC	-1999 To 9999	±0.05%
Linear	0 / 1 To 5 Volt DC	-1999 To 9999	±0.05%
Linear	0 To 10 Volt DC	-1999 To 9999	±0.05%

*Accuracy = Linearity Error + Offset Drift Error + (Cold Junction Compensation Error for Thermocouple Ranges or Lead Compensation Error for RTD Ranges).

Note: Thermocouple and RTD ranges can be displayed as °C or °F, to a resolution of 1 °C/ F or 0.1 °C/F.

Linear ranges can be displayed with up to two decimal point positions (e.g. 4321, 432.1 or 43.21).

Alarms

Number: 2 off
Indication: Separate LEDs on front panel
Action: Both user selectable -High or low
Hysteresis: Each selectable -0.1 to 19.9 digits
Relay type: 2 off, normally open contacts
Rating: 3A @ 240VAC max



- Low cost
- Universal input
- Compact size
- Alarm/ relay outputs
- Low voltage option

Power

Mains: 90 to 265VAC 50 or 60Hz @ 5VA max
Low voltage (option): 20 -32VDC/ VAC

Safety and Environmental

Safety: UL873, CSA22.2/142...87, IEC 1010...1
EMC Emissions: EN50081...1, EN55011
EMC Immunity: IEC801...2, IEC801...3, IEC801...4
Insulation: 20M Ohms min. (500VDC)
Breakdown: 2000VAC 50/ 60Hz, for 1 minute
Vibration: 10...55Hz, 1mm amplitude
Shock: 200m/ S (20g)
Operating temperature: 0 to 50°C
Storage temperature: 0 to 70°C
Humidity: 0...90% RH non...condensing
Enclosure: Flame retardant polycarbonate

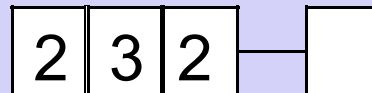
Physical/ Mechanical

Size(mm): 24H x 48W x 99D
Panel cut...out(mm): 22.2H x 45W
Maximum depth behind panel(mm): 96(D)
Weight: 110 grams
Shipping weight: 125 grams
Front panel protection: IP65



Tracker 232 indicators have been tested and comply with the European Electromagnetic Compatibility Directives and safety requirements. The units are CE marked.

Ordering code



Power

1 90 to 264VAC 50 or 60Hz
2 20 to 32VAC/ VDC

Example: 232 1

Tracker 232 Panel Meter, Mains Powered.