

TEMPERATURE MONITORING DATA SHEET

INNOCHEM TEMP-100

The TEMP-100 integrates a high-accuracy temperature meter, robust enclosure, and configurable thermocouples, delivering a complete solution for precise and continuous industrial temperature monitoring.

FEATURES

Multiple thermocouple compatibility (B, E, J, K, N, R, S, T)
Temperature meter with bar graph display and alarms
Dual outputs: 2 alarms and 4–20mA analog
Durable enclosure with minimum IP66 rating
Flexible mounting with integrated rails and tag loops
Stainless steel or corundum thermowells available

TEMPERATURE METER

Parameter	Specification
Display	4-digit LCD, 40-bar graph, starburst annunciator
Accuracy	Accuracy: $\pm 0.5^{\circ}\text{C}$ (30 min), $\pm 0.2^{\circ}\text{C}$ (40 min)
Input	Thermocouples B, E, J, K, N, R, S, T (Temperature Meter does not support RTD)
Outputs	2 x alarm setpoints, 1 x analog 4–20mA
Backlight	Programmable color, dynamic based on setpoints
Power	12–24V AC/DC, Max 1.6W
Software	USB configurable, 20-point non-linear scaling
Dimensions	2.83 x 2.83 x 2.09 inches
Certifications	UL, cUL, CE

ENCLOSURE

Parameter	Specification
Material	UV-stabilized Polycarbonate (PC), Aluminum (AL) and Stainless Steel (SS)
Window	85 mm clear polycarbonate with UV protection
Conduit Connections	(1) Bottom/Top (None, M20, 1" or $\frac{3}{4}$ "), (2) Side (M20 or $\frac{3}{4}$ ")
Enclosure Rating	PC: IP66, NEMA 4X, UL 94V-0 AL: UL, CSA: 4X/IP68; ATEX & IECEx: IP68 SS: UL, CSA: 4X/IP68; ATEX & IECEx: IP68
Dimensions	5.25 x 5.65 x 4.18 inches (W x H x D)
Mounting	Molded-in flanges and rails for PCB/display
Temperature Range	PC: -40°F to 167°F (-40°C to 75°C) AL: -67°F to 185°F (-55°C to 85°C) SS: -67°F to 185°F (-55°C to 85°C)
Weight	1.4 lbs (PC), 4.8 lbs (AL), 9 lbs (SS)
Approvals	UL (US-C), CSA (C-US), ATEX, IECEx

THERMOCOUPLE OPTIONS

Parameter	Specification
Supported Types	B, E, J, K, N, R, S, T
Ranges	-200°C to 1700°C (Thermocouple type dependent)
Accuracy	±0.25% to ±0.75% of reading
Construction	Stainless steel, corundum, ceramic
Mounting	Flange, fixed bolt, non-fixed bolt, spring-press
Customizable	Probe length, diameter (Lag Extension available for High-temp applications)
Process Connection	Customizable based on the probe diameter
Applications	Wastewater treatment, Landfill Gas, Thermal Oxidizers, Flares, Furnace
Various types of thermocouples—such as surface, screw-type, ferrule-type, and pressure spring-fixed models—are available for purchase separately upon customer request (see the thermocouple data sheet for details).	

PHYSICAL DIMENSIONS

Parameter	Specification
Enclosure Size	5.25 x 5.65 x 4.18 inches (W x H x D)
Assembled Depth	~160 mm including cable glands
Total Weight	~1.4 lbs (assembled) for PC material, enclosure type dependent

© Product designs and specifications are subject to change without notice. User is responsible for determining suitability for specific applications.