

## PRESSURE MONITORING DATA SHEET

### INNNOTECH PRES-100

The PRES-100 integrates a versatile process meter, a rugged enclosure, and a compact, high-performance pressure sensor. This assembly is designed to provide precise and reliable pressure monitoring in a wide range of industrial applications.

#### FEATURES

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| Compact pressure transmitter with high accuracy and stainless steel housing |
| User-configurable display with dual outputs and custom scaling              |
| 20-point non-linear correction table for transducer compatibility           |
| Rugged enclosure with molded rails and clear UV-stabilized window           |
| Ideal for industrial process pressure monitoring and automation             |

#### PROCESS METER

| Parameter      | Specification   |
|----------------|---|
| Display        | 4-digit LCD with 40-segment curved bar graph                              |
| Accuracy       | ±0.1% (voltage), ±0.01% (current)   |
| Input Range    | 0–10V, 4–20mA, 10–50mA  |
| Outputs        | 2 digital alarms, 1 analog 4–20mA   |
| Backlight      | Programmable color, dynamic based on setpoints (Red, Green, White colors) |
| Power Supply   | 12–24V DC   |
| Software       | USB configuration with 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              | 3.35in clear polycarbonate (Borosilicate glass for AL and SS)   |
| Conduit Connections | (1) Bottom/Top (None, M20, 1" or ¾"), (2) Side (M20 or ¾")  |
| Protection          | PC: IP66, NEMA 4X, UL 94V-0<br>AL: UL, CSA: 4X/IP68; ATEX & IECEx: IP68<br>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 PCB rails   |
| Temperature Range   | PC: -40°F to 167°F (-40°C to 75°C)<br>AL: -67°F to 185°F (-55°C to 85°C)<br>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  |

## PRESSURE TRANSMITTER

| Parameter            | Specification   |
|----------------------|---|
| Sensor Type          | General purpose or fluids compatible with 316L stainless steel, such as air, water, and mixed oil |
| Structural features  | Fully welded with a molecular sieve   |
| Output               | 4–20mA, 2-wire system   |
| Pressure Range       | 0mbar~900mbar ≤ X < 275 bar (Refer to the pressure transmitter data sheet)                        |
| Output               | 4–20mA, 2-wire system   |
| Accuracy             | ±0.5% FS or better  |
| Response time        | Liquid viscosity ( < 100 cSt): < 4 ms   |
|                      | Gas : < 35 ms   |
| Hysteresis           | ≤0.1%FS   |
| Repeatability        | ≤0.1%FS   |
| Long-term stability  | ≤±0.1%FS/year (typ.)  |
|                      | ≤±0.2%FS/year (max.)  |
| Pressure Type        | Gauge G, Absolute A, Positive/Negative N  |
| Power Supply         | 24V DC  |
| Medium temp.         | –22°F to 185°F (-30°C to 85°C)  |
| Ambient temp.        | –22°F to 185°F (-30°C to 85°C)  |
| Storage temp.        | –40°F to 185°F (-40°C to 85°C)  |
| Process Connection   | M20×1.5, G1/4A, NPT1/4, R1/4  |
| Electrical Connector | DIN43650A, M12x1, cable outlet  |
| Wetted parts         | 316L stainless steel  |
| Sealing              | NBR/FKM/Copper  |
| Non-wetted parts     | 316L stainless steel, nylon   |
| Protection           | IP65, IP67, IEC 60529   |
| Weight               | < (0.2-0.4 lbs)   |

© Product specifications are subject to change without notice. It is the user's responsibility to ensure suitability for their applications.