VITO MPT Temperature Probe

Honeywell Enraf





Safe and reliable temperature measurement.

The VITO MPT Multi spot Pt100 Temperature probe for temperature measurement together with Honeywell Enraf automatic tank gauging equipment is the answer for accurate inventory management. The VITO MPT is a robust and reliable device, fully complying with all relevant industrial standards. The VITO MPT provides average product temperature, vapor temperature and temperature profiles, utilizing high accuracy Pt100 temperature sensors. Its accuracy complies

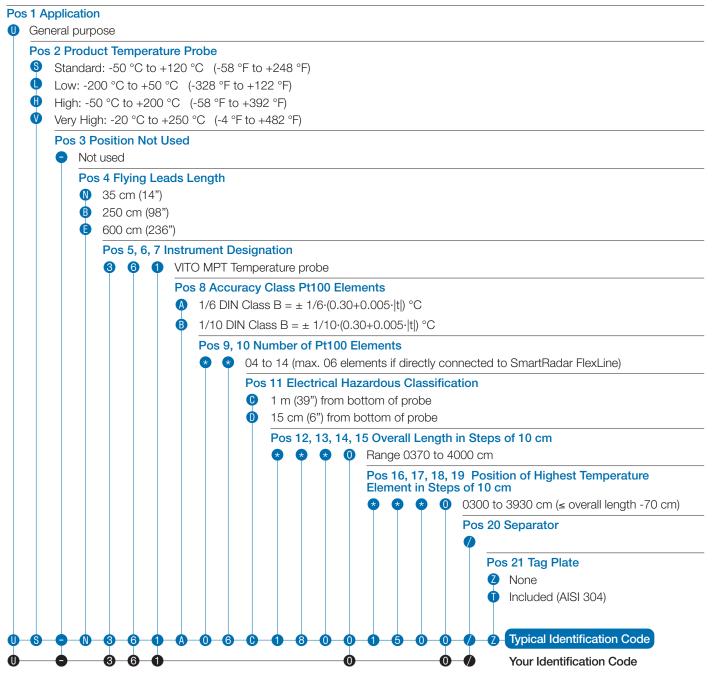
with the requirements for legal metrology and is according to API MPMS Chapter 7 section 3. The solution meets international safety requirements for use in explosion hazardous areas.

Global Experience. Locally Applied.

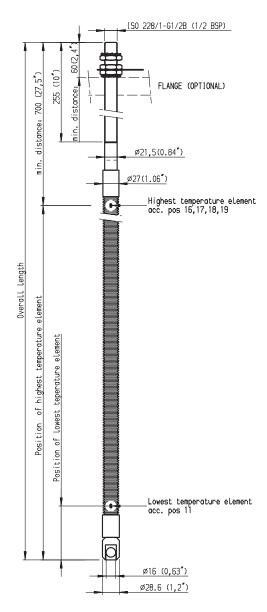
Technical Specification

| Principle | |
|---------------------------|--|
| Measuring principle | 4-14 Pt100 temperature elements equidistant spaced between top and bottom element |
| Measuring Specifications | |
| Product temperature range | |
| Standard | -50 °C to +120 °C (-58 °F to +248 °F) |
| Low | -200 °C to +50 °C (-328 °F to +122 °F) |
| High | -50 °C to +200 °C (-58 °F to +392 °F) |
| Very high | -20 °C to +250 °C (-4 °F to +482 °F) |
| Storage temperature | -50 °C to +120 °C (-58 °F to +248 °F) |
| Measuring length | Depending on identification code (see drawing) |
| Element accuracy | According EN-IEC 60751: |
| | 1/6 DIN Class B = ± 1/6·(0.30+0.005· t) °C |
| | 1/10 DIN Class B = ± 1/10·(0.30+0.005· t) °C |
| Probe accuracy | • 1/6 DIN Class B = ± (0.15+0.002· t) °C |
| | 1/10 DIN Class B = ± (0.12+0.0015· t) °C |
| Measuring resolution | 0.01 °C (0.01 °F) |
| Mechanical | |
| Process material | AISI 316 |
| Adjusting pipe | ISO 228/1-G1/2B (1/2 BSP), adjustable length 255 mm (10"), see drawing |
| Maximum outside diameter | 28.6 mm (1.2") |
| Mounting flange | Optional (1/2 BSP threaded mounting hole required) |
| Anchor weight | Max. 9 kg (20 lb) |
| Environmental | |
| Storage temperature | -50 °C to +120 °C (-58 °F to +248 °F) |
| Operating pressure | 6 bar / 600 kPa (90 psi) hydrostatic pressure |
| Safety | The VITO MPT probe is a passive component and can be considered as simple apparatus when used in Intrinsically Safe circuits in accordance with the following: |
| | • EN IEC 60079-11, clause 5.7 |
| | NEC (National Electrical Code) Article 504 (Intrinsically Safe Systems) 504.2 (Definitions) |
| | Simple Apparatus |
| Electrical | |
| Flying leads | Color coded stranded wires, PTFE isolated, length: |
| | • 35 cm (14") |
| | • 250 cm (98") |
| | • 600 cm (236")Op |

Identification Code



Dimensional Drawing 361 VITO MPT Temperature probe



For More Information

To learn more about Honeywell Enraf's VITO Probes, visit www.honeywellenraf.com or contact your Honeywell Enraf account manager.

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Your Terminal Operations Partner