



PRESSURE



Technology Solutions

EXPLOSION PROOF MULTIVARIABLE PROCESS FLOW TRANSMITTER

Tek-Bar 3800XA



1 FEATURES

- Automatic static pressure and temperature compensation.
- Easy configuration & calibration
- Field-replaceable modules reduce downtime.
- Flexible configuration options
- Universal transmitter terminals save installation and start-up time.
- Large turn down ratio of up to 100:1
- Integrated counting function

3 APPLICATIONS

- Steam and Natural Gas
- Compressed Air
- Nitrogen, Oxygen, Argon, Hydrogen Gases
- Boiler Control
- Power Plant

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2 SPECIFICATION

Measuring Range	Differential pressure sensor: 1 kPa, 10 mbar, 4 in H ₂ O, -1 kPa, -10 mbar, -4 in H ₂ O, 0.05 kPa 0.5 mbar 0.2 in H ₂ O Absolute pressure sensor: 600 kPa 6bar 87 psi, 0 abs, 6 kPa 0.06 bar 0.87 psi
Accuracy	%FS
Span Limits	± URL (TD = 0.5)
Relative Humidity	Up to 100 %. Condensation, icing: permitted
Output Signal	<ul style="list-style-type: none"> • 4 to 20 mA HART • Modbus RS485
Storage Temperature	-67 to 248 °F (-55 to 120 °C)
Temperature Input	Process temperature range -200 to 850 °C (-328 to 1562 °F) with external resistance thermometer (Pt100) in four-wire circuit
Damping	Between 0 to 60s.
Warm-up Time	Ready for operation as per specifications in less than 10s with minimum damping
Power Supply	Operates on terminal voltage of 10.5 to 30 VDC
Electronic Housing Material	Pure Polyester Powder Coated Low Copper (<0.4%)-Aluminum
Fill Fluid	Silicone Oil DC200, Silicone Oil 704, NEOBEE® M-20 or CTFE (Chlorotrifluoroethylene)
Process Connections	1/4"-18 NPT (F), 1/2"-14 NPT(F), M10 with operating pressure upto 100 bar, M12 with higher operating pressure of 410 bar
Insulation Resistance	> 100 M ohm at 500 VDC (between terminals and ground)
Cable Entry	2x 1/2"-14 NPT or M20 x 1.5 threaded bores for cable glands, directly on housing
Materials	Stainless steel 1.4435 (AISI 316L), Hastelloy C276®, Monel 400®, Monel 400®, gold-plated, Tantalum
Net Weight	8.3 pounds (3.8kg) with Aluminum Housing
Mounting Position	Suitable for vertical and horizontal mounting
Approvals	ATEX/IEC, FM