



PRESSURE



Technology Solutions

Multivariable Transmitter Tek-Bar 3800XH



1 FEATURES

- Automatic static pressure and temperature compensation.
- Wide turndown ratio up to 400:1.
- Multiple local display capabilities.
- External zero, span and configuration capability.
- Comprehensive on-board diagnostic capabilities.
- Integral Dual Seal design for highest safety based on ANSI/NFPA 70-202 and ANSI/ISA 12.27.0.
- World-class overpressure protection.
- Field-replaceable modules reduce downtime.
- Universal transmitter terminals save installation and startup time.
- Low cost and maintenance.

3 APPLICATIONS

- Oil and Gas Industries
- Boiler Industries
- Power Plant
- Chemical Industries
- Petrochemical Industries
- Glass Plant

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2 SPECIFICATION

Accuracy	Differential Pressure: up to $\pm 0.0400\%$ Static Pressure: up to $\pm 0.0375\%$ Temperature: up to 0.2°C Mass Flow: up to 0.6% Totalizer: up to 0.4%
Measuring Range	Differential Pressure: -25 to $+25''\text{H}_2\text{O}$; -400 to $+400''\text{H}_2\text{O}$; -400 to $+400''\text{H}_2\text{O}$; -2000 to $+2000''\text{H}_2\text{O}$
	Static Pressure: 0 to 100psia; 0 to 1500psia; -14.7 to 4500psig; -14.7 to 4500psig
Operating Temperature	-40 to 185°F (-40 to 85°C)
Storage Temperature	-67 to 248°F (-55 to 120°C)
Humidity	0 to 100%
Output Signal	Two-wire, 4 to 20mA (HART & DE Transmitters only) Tek-Trol DE, HART 7 and Modbus protocol Modbus Model: RS-485 Half duplex communication interface All transmitters, irrespective of protocol have polarity insensitive connection
Power Supply	HART Models: 10.8 to 42.4VDC DE Models: 15 to 42.4VDC Modbus (RS-485) Models: 9.5 to 30VDC
Material	316L SS, Hastelloy [®] C-2762, Monel [®] 400 3, Tantalum, Gold-plated 316L SS, Gold-plated Hastelloy [®] C-276, Gold-plated Monel [®] 400
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)
Mounting	Can be mounted in virtually any position using the standard mounting bracket. Bracket is designed to mount on 2" (50mm) vertical or horizontal pipe.
Process Connections	$\frac{1}{4}''$ - NPT or $\frac{1}{2}''$ - NPT with adapter
Net Weight	8.3pounds (3.8kg) with Aluminum Housing
Approvals	ATEX, CSA, FM, IECEx, NEPSI