



PRESSURE

Smart Differential Pressure Transmitter

Tek-Bar 3110B



Technology Solutions



1 FEATURES

- Digital communication HART protocol
- High accuracy up to $\pm 0.075\%$
- Various Output: 4-20 mA, digital signals with HART® Communication, Optional/Modbus RS485
- Superior stainless steel process flange
- Fully-sealed and fully isolated silicon pressure sensor
- Multiple temperature and linearity compensation to improve accuracy
- Dual diaphragm overload protection, it can easily cope with overload tests.
- It can be used to measure liquid, gas, and steam flow
- CSA Class I Div I Approved

3 APPLICATIONS

- Food and beverages
- Water and wastewater industries
- Oil and Gas
- Pharmaceutical
- Chemical

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2 SPECIFICATION

Pressure Type	2 wire Smart Differential Pressure Transmitter
Reference accuracy	$\pm 0.075\%$ F.S.
Wetted materials	Hastelloy C and 316 L SS
Measuring Range	24" W.C. to 1450 psid
Stability	$\pm 0.2\%$ URL/5 year
Working temperature	-40 °F to 185 °F (-40 °C to 85 °C)
Working humidity	5 to 100% RH at 104 °F
Output signal	4 mA to 20 mA with HART® Communication, Optional / Modbus RS485
Electrical connection	½" NPT Female
HART loop resistance	250 to 550Ω
Process connection	½"
Approvals	CE, CSA Class I Div I
Weight (excluding option items)	8.81lb (without mounting bracket and process connection adapter)
Media temperature	Silicon oil filling: -40 °F to 248 °F (-40 °C to 120 °C) Fluorocarbon oil filling: -49 °F to 320 °F (-45 °C to 160 °C)
Power Supply	10.5-55 VDC (Standard)
HART protocol	16.5-55 VDC, communication load resistance 250Ω
Load resistance	0-2119 for working condition, 250- 600Ω for HART Protocol
Transmission distance	<1000 m
Power consumption	≤ 500 mW at 24 VDC, 20.8 mA