



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 and 1 to 5VDC)
- 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 industry
- Fuel gas duct. Measurement

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2 SPECIFICATION

Pressure Type	Differential
Reference accuracy	$\pm 0.075\%$ F.S.,
Wetted materials	Hastelloy C and 316 LSS
Measuring Range	24"W.C. to 1450psid
Stability	$\pm 0.2\%$ URL/5 year
Process connection	1/4" NPT Female
Working humidity	5 to 100% RH at 104°F
Output signal	4 mA to 20 mA with HART® Communication (Optional Modbus RS485 and 1 to 5VDC)
Electrical connection	1/2" NPT Female
HART loop resistance	250 to 550Ω
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)
Standard/ame proof	10.5 to 55VDC
HART protocol	16.5 to 55VDC, communication load resistance 250Ω
Load resistance	0 to 2119 for working condition, 250 to 600Ω for HART Protocol
Transmission distance	<1000 m
Power consumption	≤ 500 mW at 24VDC, 20.8mA