



PRESSURE

Smart Differential Pressure Transmitter

Tek-Bar 3110B



1 FEATURES

- Digital communication HART protocol
- High accuracy up to $\pm 0.075\%$
- Various Output: 4-20 mA, digital signals
- 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

3 APPLICATIONS

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

2 SPECIFICATION

Pressure type	Differential Pressure
Reference accuracy	$\pm 0.075\%$ F.S., optional Enhanced Accuracy of $\pm 0.065\%$, $\pm 0.04\%$
Diaphragm materials	Hastelloy C
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 to 20 mA with HART®
Electrical connection	½" NPT Female
HART loop resistance	250 to 550 ohm
Process connection	¼" NPT Female
Approvals	General purpose NEMA 4X or IP66
Weight (excluding option items)	8.81lb (without mounting bracket and process connection adapter)
Testing standard	GB/T28474 / IEC60770
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)
Standard/flame proof	10.5-55 VDC
HART protocol	16.5-55 VDC, communication load resistance 250 Ω
Load resistance	0-2119 Ω for working condition, 250- 600 Ω for HART
Transmission distance	<1000 m
Power consumption	≤ 500 mW at 24 VDC, 20.8 mA

