



PRESSURE

Smart Gauge Pressure Transmitter

Tek-Bar 3120B



Technology Solutions



1 FEATURES

- Digital communication HART protocol
- High accuracy up to $\pm 0.075\%$
- Various Output: 4-20 mA, digital signals
- Multiple temperature and linearity compensation to improve accuracy
- Fully-sealed and fully isolated silicon pressure sensor
- Superior stainless steel process flange
- Dual diaphragm overload protection, it can easily cope with overload tests
- 355° rotation display module

3 APPLICATIONS

- Food and Beverages
- Water and wastewater
- Oil and Gas
- Pulp and Paper
- Chemical

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2 SPECIFICATION

Pressure Type	Gauge pressure
Accuracy	$\pm 0.075\%$ F.S.
Diaphragm Materials	Hastelloy C
Measuring Range	5 to 10000psig
Stability	$\pm 0.2\%$ URL/5 year
Process Connection	$\pm 0.075\%$ F.S.
Wetted material	316 LLS and Hastelloy C
Working Humidity	5-100% RH at 104 °F
Output Signal	4 mA to 20 mA with HART® Communication (Optional Modbus RS485)
Mounting Position Effect	Apply to any position. Max value lower than 1.6 w.c. (400 Pa) can be corrected by zero clearing function
Electrical connection	1/2" NPT Female conduit
Insulation Resistance	≥ 20 M Ω at 100VDC
Process Connection	1/4" NPT Female
Working temperature	-40 °F to 180 °F (-40 °C to 82 °C)
Enclosure Rating	NEMA 4X (IP66); Optional IP68
Weight (excluding Option Items)	3.43 lb (1.55kg)
Testing Standard	IEC60770
Media temperature	Silicon oil filling: -40 °F to 248 °F (-40 °C to 120 °C)
Protection class	IP66
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
Agency Approval	CE, CSA Class I Div I