



PRESSURE

# Smart Gauge Pressure Transmitter

## Tek-Bar 3120B



### 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 industries
- Oil and Gas
- Pulp and Paper industry
- Chemical industry

### 2 SPECIFICATION

Pressure type	Gauge Pressure
Reference accuracy	$\pm 0.075\%$ F.S., optional Enhanced Accuracy of $\pm 0.065\%$ , $\pm 0.04\%$
Diaphragm materials	Hastelloy C
Measuring range	5.8 psig to 5800 psig
Stability	$\pm 0.2\%$ URL/5 year
Ambient temperature effect	-4 °F to 176 °F (-20 °C to 80 °C)
Working humidity	5 to 100% RH at 104 °F
Output signal	4 to 20 mA with HART
Electrical connection	½" NPT Female conduit
Insulation resistance	$\geq 20$ M $\Omega$ at 100 VDC
Process connection	¼" NPT Female
Working temperature	-40 °F to 180 °F (-40 °C to 82 °C)
Weight	About 3.43 lb (without mounting bracket and process connection accessory)
Testing standard	GB/T28474 / 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 $\Omega$
Load resistance	0-2119 $\Omega$ for working condition, 250- 600 $\Omega$ for HART
Transmission distance	<1000 m
Power consumption	$\leq 500$ mW at 24 VDC, 20.8 mA