



PRESSURE

# Explosion-Proof Differential Pressure Transmitter

## Tek-Bar 3110A



Technology Solutions



### 1 FEATURES

- Operator can calibrate device using zero/span button, no handheld calibrator required
- High accuracy up to  $\pm 0.075\%$
- Various Output: 4-20 mA, digital signals
- EEPROM write protection
- Fail-safe mode process function for detecting any abnormal condition occurring
- The mounting bracket can be rotated up to 360° and LCD display up to 270°
- Automatic ambient temperature compensation improve performance of device

### 3 APPLICATIONS

- Distilleries
- Water and waste water industries
- Oil and Gas
- Pharmaceutical
- Dairy industries

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### 2 SPECIFICATION

Accuracy	$\pm 0.075\%$ of span
Rangeability	100:1 turn down
Maximum working pressure limit	2000 PSI
Process temperature limits	-40 °F to +248 °F
Stability	5 Years
Ambient temperature effect	$\pm [0.019\% \text{URL} + 0.125\% \text{Span}] / 82.4 \text{ } ^\circ\text{F}$
Ambient temperature	-40 °F to +185 °F
Humidity limits	5% to 100% RH
Power supply effects	$\pm 0.005\%$ of Span per Volt
Mounting position effects	Zero Shift up to 350Pa no span effect
Display (optional)	5 digit LCD display
Damping time	0.25 to 60 sec
Failure mode	Fail High: Current $\geq 21.1 \text{ mA}$ Fail Low: Current $\leq 3.78 \text{ mA}$
Power supply	12 to 45 VDC
Weight (excluding option items)	8.589 lb (Standard), 11.882 lb (SST Housing)
Output signal	4 mA to 20 mA or HART®
Isolation	500 Vrms (707 VDC)
HART loop resistance	250 to 550 ohm
Process connection size	1/4" NPT female
Electrical connections	1/2" NPT female
2" Pipe stanchion type bracket	Angle or flat type
Approvals	FM (Class I Div I)
Bolts and bolting flange	304SST
Electronic housing	Aluminum (Option:316LSST)
Mounting bracket	304SST with U-bolt (304SST) for 2" pipe
Paint	Epoxy-Polyester or Polyuret
Fill fluid	Silicone oil or inert fill
O-ring	Viton, PTFE
Isolating diaphragm	316SST