PRESSURE

Multivariable Pressure Transmitter

Tek-Bar 3800E

1 FEATURES

- Suitable for wide range of media such as steam, liquid, general gas.
- Fully sealed sensor encapsulation for harsh environment.
- Protected against severe pressure and temperature spikes.
- Optional LCD display with convenient push buttons for configuration.
- 4 to 20mA or RS485 protocol enabled.
- Convenient 360° rotatable display module.
- High accuracy up to ±0.075% FS.

3 APPLICATIONS

- Steam
- Medical or Pharmaceutical
- Engine Control, Pneumatic Hydraulic Machines
- Chemical and Petrochemical
- Air Conditioning, Refrigeration Systems
- Water and Wastewater
- Power Plants

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2 SPECIFICATION

Accuracy	± 0.075% FS
Measuring Range	Differential Pressure: 24" w.c. to 290psid Static Pressure: 36psi to 5800psi
Stability	±0.1% FS for 3 years
Sensor Body	316 SS
Isolating Diaphragm	316 SS or Hastelloy C
Cover Flange	316 SS
Nuts and Bolts	304 SS
Process Connector	316 SS
Fill Fluid	Silicone Oil or Fluorinated Oil
Process Connector Gasket	Fluoroeleastomer (FKM) or Polytetrafluoroethylene (PTFE)
Amplifier Housing	Aluminum with epoxy resin coat
Housing Gasket	NBR
Name Plate and Tag	304 SS
Protection	IP67
Weight	7.27 lb (3.3 Kg)
Process Connections	¼" Female NPT, Relief valve
Electrical Connections	½" NPT conduit connections
Power Supply (Vs)	24VDC
Load Resistance (RL)	RL≤(Us-12 V) / Imax kΩ
Maximum Current (Imax)	23mA
Output	2-wire 4-20 mA Modbus RS 485 or Pulse
Maximum Working Pressure	0.25Mpa, 2Mpa, 10Mpa, 40Mpa
Measuring Temperature	-58 °F to 1202 °F (-50 °C to 650 °C)
Ambient Temperature	-40 °F to 185 °F (-40 °C to 85 °C)
Storage Temperature	-40 °F to 185 °F (-40 °C to 85 °C); -58 °F to 185 °F (-50 °C to 85 °C)
Response Time	0.1-1.6 sec.