SENSOR/TRANSMITTER

PRESSURE SENSOR/TRANSMITTERS FOR PUMPS WITH TECHNOLOGIC® DRIVES

STANDARD FEATURES
• Completely self contained two wire unit
• Takes accurate pressure readings and relays them to the Technologic controller up to 2000 ft. (610 m) away
• No separate power source required for distances less than 2000 ft. (610 m)
• All wetted parts are 316 stainless steel
• Built-in RFI filter effective from 20 to 1000 MHZ
• Housed in NEMA 4X enclosure
• Unit accuracy is 0.07% full span
• Withstands static pressures up to 2300 PSI (15858 kPa)
• Mounting hardware
• 3 Valve bypass manifold (optional)
• 10 lbs. (4.5 kg) approximate weight

The rugged Bell & Gossett Pressure Differential Pressure Sensor/Transmitters precisely measure system conditions and transmits a proportional 4 to 20 mA dc signal to the Technologic Controller.

These capacitance type units are calibrated to a standard range, but can be re-calibrated at the factory to meet a variety of conditions.

INSTALLATION CONSIDERATIONS
• Standard 18 AWG (1.194 mm dia.) 2 wire shielded cable located in a conduit separate from high voltage wiring
• 24 vdc power supplied from Technologic Controller

B&G PART NUMBERS
S100089 Pressure range: 0 - 40 psi (0 - 276 kPa)
S100091 Pressure range: 0 - 70 psi (0 - 483 kPa)
S100092 Pressure range: 0 - 100 psi (0 - 689 kPa)

TECHNOLOGIC ANALOG SENSOR WIRING
Differential Pressure Transmitter

Outline Dimension Drawings - Dimensions In Inches (Millimeters)

1. Process connection 1/4-18NPT for absolute pressure (+) side
2. Mounting thread 7/16-20 UNF to EN 61518
3. Dummy plug
4. Electrical connection: Screwed gland 1/2-14 NPT
5. Connection side
6. Electronic side, no digital display
7. Access cover over magnetic pushbuttons
8. Sealing screw with vent shown (optional)
9. Side vent for measuring liquid
10. Side vent for measuring gas (supplement H02)
11. Mounting bracket (2 shackles, 4 nuts, 4 U-plates, 1 angle) made of steel

Sensor/Transmitter Specification

Differential Pressure Transmitter

Furnish ( ) field mounted differential pressure transmitter(s) as indicated on plans for measuring differential pressure and transmitting an isolated linear 4-20 mA dc output for use in a standard two wire 24V dc system. The unit shall be accurate to ± 0.07% of full span, have an adjustable span limit between _____ and _____ psi and shall withstand over ranges up to a static pressure of 2300 psi with negligible change in output. It shall have stainless steel wetted parts with 1/4" NPT process connection. A 3 valve bypass manifold shall be available as an option. The unit shall be protected against radio frequency interference and shall have a water tight (NEMA Type 4x) electrical enclosure with 1/2" NPT conduit connection.