

SENSOR/TRANSMITTERS (ST-SERIES)

ROSEMOUNT PRESSURE AND DIFFERENTIAL PRESSURE SENSOR/TRANSMITTERS

POWERSAV[®]
VARIABLE SPEED PUMPING SYSTEMS



Gauge Pressure
Transmitter ST-101R



Differential Pressure
Transmitter ST-102R

The rugged Bell & Gossett Pressure (ST-101R) and Differential Pressure (ST-102R) Sensor/Transmitters precisely measure system conditions and transmit a proportional 4 to 20mA dc signal to the Technologic Controller.

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

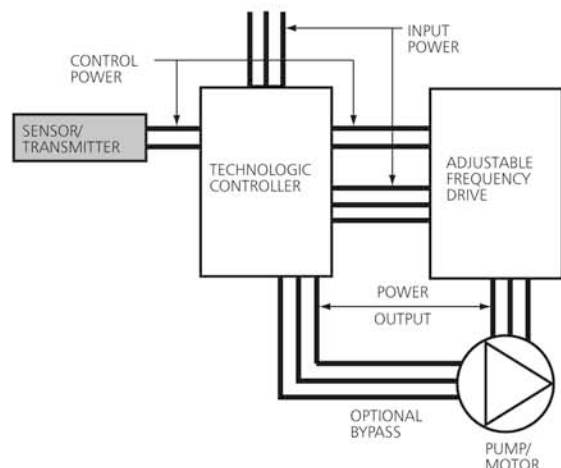
INSTALLATION CONSIDERATIONS

- Standard 18 gauge 2 wire shielded cable located in a conduit separate from high voltage wiring
- 24 vdc power supplied from Technologic Controller
- ½ inch NPT piping connections

STANDARD FEATURES

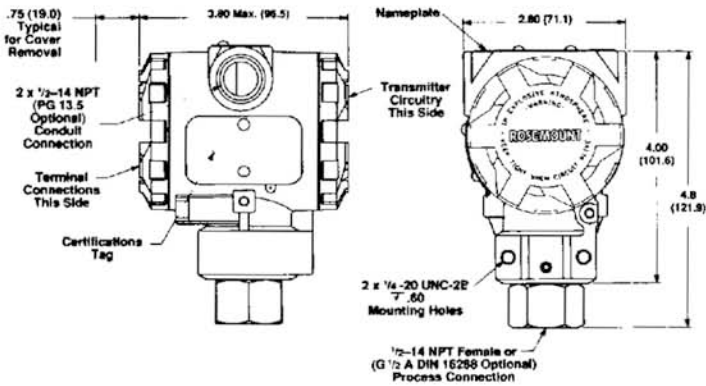
- Completely self contained two wire unit
- Takes accurate pressure readings and relays them to the Technologic controller up to 2000 feet away
- No separate power source required for distances less than 2000 feet
- Over Pressure Limits:
ST-101R: 300 psig
ST-102R: 2000 psig
- House in a water-tight NEMA 4X enclosure
- Unit accuracy of 0.25% full span
- Rated for -40°F to 180°F ambient temperature
- Mounting hardware
- 3 Valve bypass manifold (optional)
- Standard Calibration:
ST-101R: 0-150 psig
ST-102R: 0-36 psig
- Approximate weights:
ST-101R: 2 lbs.
ST-102R: 6 lbs.
- 316L stainless steel wetted parts

POWERSAV[®] BLOCK DIAGRAM

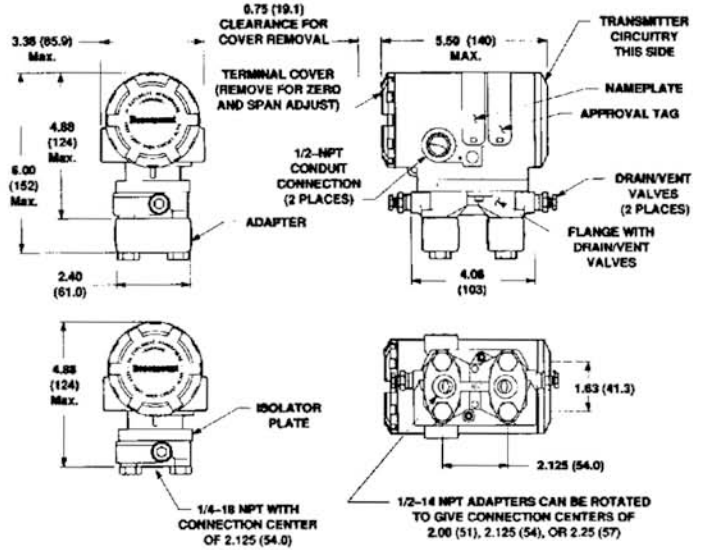


OUTLINE DIMENSION DRAWINGS

DIMENSIONS IN INCHES/MILLIMETERS



GAUGE PRESSURE TRANSMITTER ST-101R



DIFFERENTIAL PRESSURE TRANSMITTER ST-102R

Sensor/Transmitter Specification

Pressure Transmitter # ST-101R

Furnish () field mounted gauge pressure transmitter(s) as indicated on plans for measuring gauge 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 $\pm 0.25\%$ of full span, have an adjustable span limit between _____ and _____ psi and shall withstand over ranges up to a static pressure of _____ psi with negligible change in output. It shall have stainless steel wetted parts with 1/2" NPT female process connection. Unit shall be rated for -40°F to 180°F ambient temperature and shall have a watertight (NEMA Type 4x) electrical enclosure with 1/2" NPT conduit connection.

Differential Pressure Transmitter # ST-102R

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 $\pm 0.25\%$ of full span, have an adjustable span limit between _____ and _____ psi and shall withstand over ranges up to a static pressure of 2000 psi with negligible change in output. It shall have a corrosion resistant steel body with 1/2" NPT process connections. A 3 valve bypass manifold shall be available. Unit shall be rated for -40°F to 180°F ambient temperature and shall have a watertight (NEMA Type 4x) electrical enclosure with 1/2" NPT conduit connection.

Xylem Inc.

8200 N. Austin Avenue, Morton Grove, Illinois 60053
 Phone: (847) 966-3700 Fax: (847) 965-8379
www.xylem.com/brands/bellgossett

