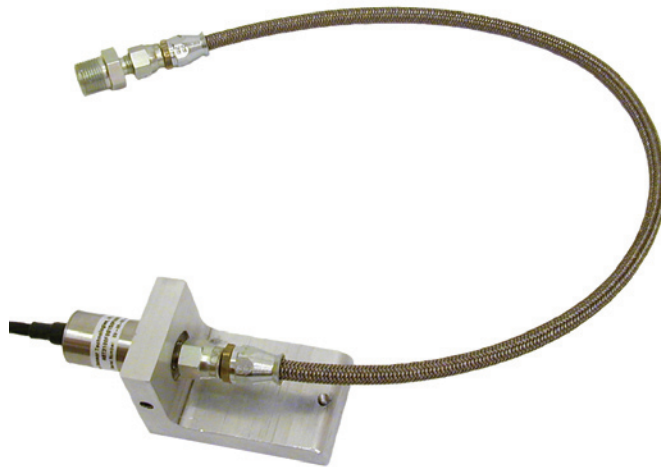


Substation Advisor[®] System

PS1 Pressure Sensor



The model PS1 pressure sensor is used to measure the pressure of enclosed gas systems.

Overview

The model PS1 temperature compensated pressure sensor provides an analog input to data equipment proportional to the pressure of the gas system to which it is connected. It can be used, with appropriate fittings, to measure the pressure of a transformer tank, SF6 insulating gas, or a pneumatic circuit breaker air tank.

The sensor can be installed by itself or as part of a Substation Advisor[®] System. Standard sensors have a maximum full-scale pressure rating of 150 PSI, with other ratings available.

Features

The sensor is incorporated with custom hardware to permit easy retrofit to commonly applied circuit breaker equipment, generally by connection to the gas fill valve. Breaker gas density can be provided by integrating the pressure information with temperature using a software application available for Cannon Data Gateway platforms.

Functional

- Analog value for the monitored point varies from 1/5th full-scale to full-scale for a sensor pressure of 0 PSI to its rated pressure.
- 4 to 20 mA loop powered by the I/O analog input 24 VDC loop supply voltage. No external power connection is required.
- The sensor element has vacuum withstand capability and is accurate to +/-0.5%.

Specifications

- Rugged stainless steel sensor element.
- Burst pressure rating is 750 PSI.
- Operating temperature range of -40° to 185° F (-40° to 85° C).
- Shielded multi-conductor 20 AWG connection cable.



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