



DIGITAL ALARMING PRESSURE GAUGE

Available Model

PSI-DPG-1

Pressure measurement is one of the most important parameters in the operation and control of most industrial processes, allied services and utilities. Pressure measuring instruments must be accurate and reliable and easy to use and calibrate.

Salient Features

- ☞ Microprocessor based
- ☞ Accuracy $\pm 0.5\%$ of FS.
- ☞ High reliability and reproducibility
- ☞ Programmable alarm setting up to 2 alarms
- ☞ Programmable delays
- ☞ Programmable hysteresis
- ☞ Potential free alarm contacts for alarming and ON/OFF control
- ☞ User defined averaging
- ☞ DIN compliant panel mounting



Model PSI-DPG is a compact, accurate and reliable instrument which is very useful in industrial processes requiring accurate indication of pressure of expensive gases, liquid and air.

Model PSI-DPG comprises a pressure sensor and electronics. All the parts including the pressure sensor and electronics and pressure connections are housed inside $\frac{1}{4}$ DIN housing for low pressure applications. For high pressure measurement an external SS body sensor is provided in a suitable housing.

The pressure sensor is selected from a variety of highly stable, temperature compensated pressure sensors according to the media, range and type of measurement viz. differential, gauge and absolute.

The electronic includes circuits for sensor supply, signal conditioning and interfacing and microprocessor based assembly for carrying out data acquisition and operator interface including unit audio-visual indication, display, mode selection, alarm setting, auto zeroing etc. It can also be used for automatic ON/OFF control for which potential free alarm relay contacts are provided.

Detailed Technical Specifications

MEASUREMENT		ELECTRONICS	
Sensor	Solid State Pressure sensor Selected according to specified type and range of measurement	Functions	Interfacing with pressure sensor Data acquisition and processing Operator interface
Measurement type	User specified from Differential Gauge Absolute	Implementation technology	Microprocessor based
Gauge Pressure range	User specified up to 10000 PSIG	Digital Averaging	2 to 50 readings
Absolute Pressure range	15 to 500 PSIA	Alarms	User specified 1 or 2 Alarms
Measurement accuracy	$\pm 0.5\%$ FS	Delay	User settable from 0 to 50 seconds
Differential Pressure range	User specified up to 150 PSID	Hysteresis	Factory settable from 5 to 20%
Related Services Pressure calibration of own and third party instruments		Display	4 digit 7 segment LED (9999 Counts)
		Visual Indication	3 LED indicators one each for Set Alarm 1 Alarm 2
Related Products Digital Pressure Calibrator Model PSI –DPC-1 & DPC 2 Digital Barometric Pressure Indicator Model PSI – BPI-1 Pressure Calibration Hand Pump Model PSI – PP1, PSI – PP-2, PSI – PP-3 , PSI – HPP-1		Operating keys	3 Nos. for Mode Auto Zero / Increment Auto Zero / Decrement
		Alarm output	1 or 2 Nos. Independent potential free relay-contacts
		Housing Cabinet	$\frac{1}{4}$ DIN panel mountable box L=20 cm
		Power	110 - 230 Volts, 50 Hz. Single phase

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