



ADVANCED DIGITAL PRESSURE CALIBRATOR

Available Model:

PSI-DPC- 2

Pressure measurement is one of the most important parameters in the operation and control of most industrial processes, allied services and utilities. Not only the pressure measuring instruments must be designed to be inherently accurate and reliable but they must also be periodically calibrated so as to ensure continued reliable and accurate measurements.

Salient Features

- High Resolution sigma-delta ADC
- Microprocessor based electronics
- Multipoint Linearization to enable high accuracy pressure measurements
- Excellent accuracy of $\pm 0.1\%$ FS –customizable to accuracy of $\pm 0.05\%$ FS on request
- High reliability and reproducibility
- Selectable pressure unit from 11 pressure units
- USB port for transfer of data to PC at user selectable transmit rates
- Li-ion rechargeable battery with USB Charger
- Peak Hold facility
- Very elegant and sturdy hand held cabinet



PSI-DPC-2 is an advanced, high resolution, microprocessor based hand held instrument. The user interface comprises a 32 character OLED Module and a 9-key key pad.

DPC-2 comprises a pressure sensor and electronics. All the parts including the pressure sensor and electronics and pressure connections are housed inside or on the single instrument cabinet for most general applications involving non-corrosive fluids like air and moderate pressure range 0-25.000 mmWC to 100.00 psid and 1150 mbar

For applications involving pressures higher than 5 psig and up to 10000 psig, sensors with stainless steel isolated diaphragm and SS body are available. These sensors are located outside the instrument cabinet as such or packaged as a probe. These sensors are also available for lower pressures and are suitable for applications involving liquids and corrosive gases

Pressure sensors are selected from among a variety of highly stable, temperature compensated pressure sensors according to the range, 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, advanced multipoint linearization* and operator interface including unit selection, display, calibration, peak hold and auto zero etc.

*Model PSI-DPC-2 comes with standard accuracy of $\pm 0.1\%$ which is achieved through advanced multipoint linearization. DPC 1 can also be supplied with more precise and accurate sensor to achieve specified higher accuracy $\pm 0.05\%$ of FS.

- PSI-DPC-2 is equipped with a USB port for transfer of data to PC at user selectable transmit rates
- PSI-DPC-2 operates on 3.6 Volts 1400 mAh Li-ion Battery. USB Charger for charging the battery is provided.

Detailed Technical Specifications

Sensor

Type →	Internal	External
Specification↓		
Application: Media used for	Air and Non-corrosive gases	Liquids and Non-corrosive gases
Differential Pressure range	0-25 mmWC to 100 psid	-
Gauge Pressure range		5 to 10000 psig
Absolute Pressure range	1150 mbar	
Sensor Casing	Plastic	SS
Sensor Media Isolation	Silicon diaphragm	SS diaphragm

Electronics

Functions	Interfacing with pressure sensor, Data acquisition and processing, Operator interface
Pressure measurement type	Differential, I Gauge, Absolute
Differential Pressure range	0-25.000 mmWC to 100.00 psid
Gauge Pressure range	15 to 10000 psig
Absolute Pressure range	1150 mbar
Display	32 character Alphanumeric OLED
Operating keys	9
Maximum Resolution	1 in 60000
Operating Power supply	3.6 Volts 1400 mAh Li-ion Battery
Charger	USB Charger
Cabinet Material	High quality ABS
Cabinet Dimensions	22 x 10 x 4 cms
Weight	400 grams

Accessories

Carrying Cases for Pressure Calibrator

Carrying Cases for Pressure Calibrator and Pressure Calibration Hand Pumps

Related Products

Digital Pressure Calibrator Model PSI-PC1

Digital Alarming Pressure Gauge Model PSI-DPG1

Digital Barometric Pressure Indicator Model PSI-BPI 1

Pressure Calibration Hand Pump Model PSI-PP1, PSI-PP2, PSI-PP3, PSI-HPP 1

Precision Low Pressure Generator Model PSI-PLPG 1

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