Model SBP
Ultra Precision Portable Digital Pressure Gauge

Description

SBP Portable Digital Pressure Gauge, with advanced microprocessor technology and state-of-the-art pressure sensors, provide an accurate, reliable and economic solution for a wide range of pressure applications. This model combines precision and functionality in a compact, robust and simple-to-use package.

Features

▶ Unique and easy user interface
▶ Die casting body
▶ Measuring range 0~150MPa
▶ ±0.025%FS Accuracy , −10 to 50℃
▶ Large, easy to read display with 5 digits resolution
▶ 10 selectable pressure units
▶ RS232C communication, Analog Output
▶ Pressure Switch Test, Peak, Min./Max. , Alarm functions

Applications

▶ Portable Field Calibration & Calibration Labs.
▶ Process monitoring & Control
▶ Over pressure Test & Explosion pressure Test
▶ Pressure Safety Valve(PSV) Test
▶ Valve & Regulator Test
▶ Chart Recorder Replacement
▶ Leak Test

Specifications

Range

0~15, 35, 100, 350, 700kPa, 2, 3.5, 7, 20, 35, 60, 70, 100, 150MPa(Gauge) (15, 35kPa Only Air)
−100kPa~100, 200, 350, 700kPa, 2, 3.5MPa(Gauge)
0~100, 200, 350, 700kPa, 2, 3.5, 7, 20, 35, 70MPa(Absolute)

Performance

Accuracy	Gauge : ±0.025%FS ± 1digit / Absolute : ±0.05%FS ± 1digit (Include Linearity, Hysteresis, Repeatability, Thermal Error)
Compensated Temperature Range	−10~50℃
Operating Temperature Range	−20~80℃

Electrical

Display		±99999 Backlight LCD
Excitation		AA Size Alkaline Battery × 3 (Battery Time ≒ 1000Hour) / External Power : 12~32VDC
Output		
	Analog	0~5VDC, 1~5VDC, 4~20mA(Only External Excitation / Accuracy ±0.1%FS)
	Digital	RS232
Display Time		2 time/sec (on Peak function,10 time/sec)
Function		Peak, Switch Hold, Alarm, Data logging, Auto power off, Zero./Span Calibration, Auto Zero, Overpressure Alarm

Physical

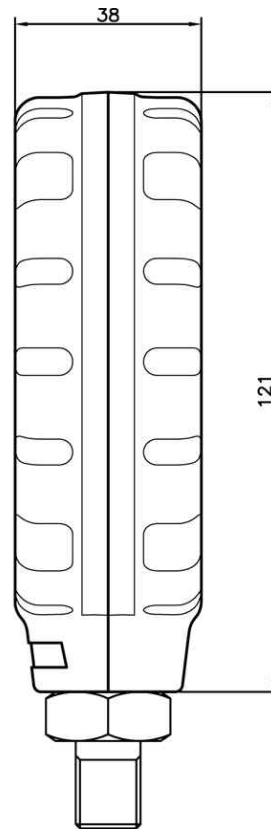|	
Proof Pressure	X1.5 or 150MPa, Whichever is less.
Burst Pressure	X2 or 150MPa, Whichever is less.
Vibration	49.1m/s^2{5G}, 10~500Hz
Shock	490m/s^2{50G}
Pressure Port	G(PF)1/4", NPT1/4", 9/16UNF Cone Thread(HF4/AF250C, 100 MPa/150 MPa)
Media-Wetted Materials	SS316L, VITON or SS316L, Ti 87%
Weight	Approx. 530g

Sensys

Dimension

Pin No.	Connections
1	GND
2	RS232 Rx
3	RS232 Tx
4	Analog Out+
5	GND
6	Switch Hold
7	Alarm Out+
8	Power +
9	Power −

Ordering Information

SBP C 0100 R C G

Model Name

Analog Output
C : 0~5V
E : 1~5V
G : 4~20mA

Pressure Range
XXXX : Pressure
CXXX : Compound Pressure

Type of Pressure Measurement
G : Gauge
J : Absolute

Pressure port
C : R(PT)1/4"   L : NPT1/4"
K : UNF9/16(F)

Pressure Unit
R : kPa   M : MPa