

SDPGB Series

Battery-Powered Digital Pressure Gauges



**0-15 psig to 0-1000 psig,
and -30 in Hg to 100 psi**

The SenSym ICT Digital Pressure Gauge Series devices are designed for pressure applications that involve measurement of any media compatible with 316 stainless steel. With its common 1/4" NPT fitting, the device is designed for many applications requiring precision, ruggedness and reliability combined with a long battery life. The digital readout provides real-time information at the push of a button.

Designed for battery operation, this digital gauge has an automatic shutoff feature allowing the user to walk away after taking a reading. The SenSym ICT Digital Pressure Gauge Series is designed for long-term usage. Zero and Span calibration are both possible, but only when the user has access to a reliable pressure reference of known accuracy.

Contact your local SenSym ICT representative, the factory, or go to SenSym ICT's web site at www.sensym-ict.com for additional details.

APPLICATIONS

Process Control
Test and
Measurement

FEATURES

±0.25% Test Gauge
Accuracy
316 Stainless Steel
Sensor
Long Battery Life
Rugged Design



SDPGB Series

PRESSURE RANGE AND RESOLUTION SPECIFICATIONS

SenSym ICT Part No.	Pressure Range	Resolution	Rated Proof Pressure	Rated Burst Pressure
SDPGB-30+100PG5	-30.0 inHg/100.0 psig	0.1 psig	2x	4x
SDPGB0015PG5	15.0 psig	0.01 psig	2x	4x
SDPGB0030PG5	30.0 psig	0.1 psig	2x	4x
SDPGB0100PG5	100.0 psig	0.1 psig	2x	4x
SDPGB0200PG5	199.9 psig	0.1 psig	2x	4x
SDPGB0300PG5	300 psig	1 psig	2x	4x
SDPGB0500PG5	500 psig	1 psig	2x	4x
SDPGB1000PG5	1000 psig	1 psig	2x	4x

SDPGB SERIES ELECTRICAL CHARACTERISTICS

Characteristic	
Accuracy (linearity, hysteresis, repeatability)	±0.25% of full scale ±1 least significant digit typical
Temperature Stability (relative to 25°C)	±1% FS for offset and span, 0 to 70°C typical
Display (update rate, type, size)	3 readings per second nominal display update rate 3-1/2 digit LCD, 1/2" digit height
Controls & Location	Front-accessible potentiometers, non-interactive zero and span Front push button turns gauge on or off. When on auto shut-off timer starts
Auto Shut-off Time	5 minutes
Battery and Battery Life	Two AA alkaline, approx. 2500 hours
Low Battery Indication	"LOBAT" on display when battery must be replaced

DIGITAL PRESSURE GAUGE CHARACTERISTICS

Environmental Specifications

Storage temperature	-40° to +95°C
Operating temperature	-20° to +85°C
Compensated temperature	0° to +70°C

Mechanical Specifications

Size

3.38"W x 2.88"H x 1.65"D
(not including pressure fitting)
Add approximately 0.75" to height for pressure fitting

Weight (approximate)

Gauge: 9 ounces
Shipping weight: 1 pound

Material & Color

Extruded aluminum case, epoxy powder coated
Polycarbonate cover, front and rear gaskets
Light gray body, light gray/blue front

Pressure/Vacuum Connection and Material

1/4" NPT male, 316 stainless steel

Media Compatibility

All wetted parts are 316 SS
Compatible with most liquids and gases

Installation

Tighten the gauge by using the wrench on hex fitting only. Do not tighten it by turning housing! Use fittings designed for the pressure range of the gauge. Do not apply vacuum to gauges not designed for vacuum operation.

Operation

Press the round button on the front of the gauge to activate the display. The gauge will stay on for 5 minutes. After this time, the gauge will automatically shut off. The gauge can be shut off at any time by pressing the button again. "LOBAT" will appear in the upper left-hand corner of the display when the battery voltage falls sufficiently. The battery should be replaced soon after the LOBAT indicator comes on or unreliable readings may result.

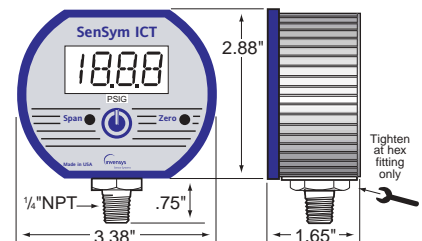
Calibration

Remove the calibration potentiometer cover on the front of the unit to access the Zero and Span controls. The Zero and Span controls are non-interactive. The gauge port must be open to the ambient with no pressure or vacuum applied. Adjust the Zero control until the gauge reads zero with the minus (-) sign occasionally flashing.

Span calibration should only be attempted if the user has access to a pressure reference of known accuracy. The accuracy of the calibration equipment ideally should be at least four times the gauge accuracy. Zero calibration must be done before span calibration. Record readings at three to five points over the range of gauge and adjust span control to minimize error and meet specifications.

Battery Replacement

Remove the six phillips head screws on the back of the unit. Carefully remove batteries from the holders by lifting up the positive end of the battery (opposite the spring). Take care not to bend or distort the battery retention springs. DO NOT discard the old battery into fire, any other sources of extreme heat, or in any other hazardous manner. Always replace both batteries at the same time with high quality alkaline batteries. Observe the polarity of the batteries when replacing them. The negative (flat) end of each battery should be inserted first and should face the spring in the battery holder. Replace the back cover, including the rubber sealing gasket.



SenSym ICT maintains a constant effort to upgrade and improve its products, therefore specifications are subject to change. © Copyright 09/01

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