






S.M. GAUGE C O M P A N Y

 sales@pressuregauge.co.uk
 www.pressuregauge.co.uk

 308-312 Lodge Causeway, Fishponds, Bristol, BS16 3RD
 0117 9654615  0117 9583660

SMDG1xxxx PAGE 1 OF 3 DIGIGAUGE DIGITAL PRESSURE GAUGE AND TRANSMITTER



Should you have any questions or are unsure of any of the information provided below, please do not hesitate to contact us using the details above. We are able to provide instrumentation to suit almost any application, our sales team will be happy to discuss your requirement or answer any questions or queries you may have.

Description

High accuracy and a 4 digit display enables the DigiGauge to be used as a digital standard test gauge, replacing less accurate, sometimes fragile analogue test gauges. Factory calibration certificates traceable to National Standards are provided and UKAS calibration certificates can be supplied if required.

Covering a wide range of test and measurement applications with pressure ranges available from vacuum to 400 bar, DigiGauge can be supplied with hygienic fittings for food applications or with diaphragm seals for use on corrosive, viscous or crystallising fluids.

All standard DigiGauge's are calibrated in a controlled environment at $20^{\circ}\text{C} \pm 3^{\circ}\text{C}$. Temperature compensated sensors are fitted as standard to automatically correct zero and span drift. All versions of DigiGauge can also be specified with a MAXIMUM and MINIMUM pressure logging option

Features

- High Accuracy $\pm 0.2\%$ full scale
- Stainless steel IP67 case
- Long battery life - 1 year continuous operation from 2 AA cells
- Wide selection of pressure ranges from vacuum to 400 bar
- 4 to 20mA output option available
- Intrinsically safe versions available
- Supplied with calibration certificate traceable to National Standards
- Available with MAX and MIN pressure readings

Technical Specification

Case

100mm / 4" diameter 304 stainless steel case and bezel

Process Connection

1/4" or 1/2" BSP or NPT - other sizes are available on request

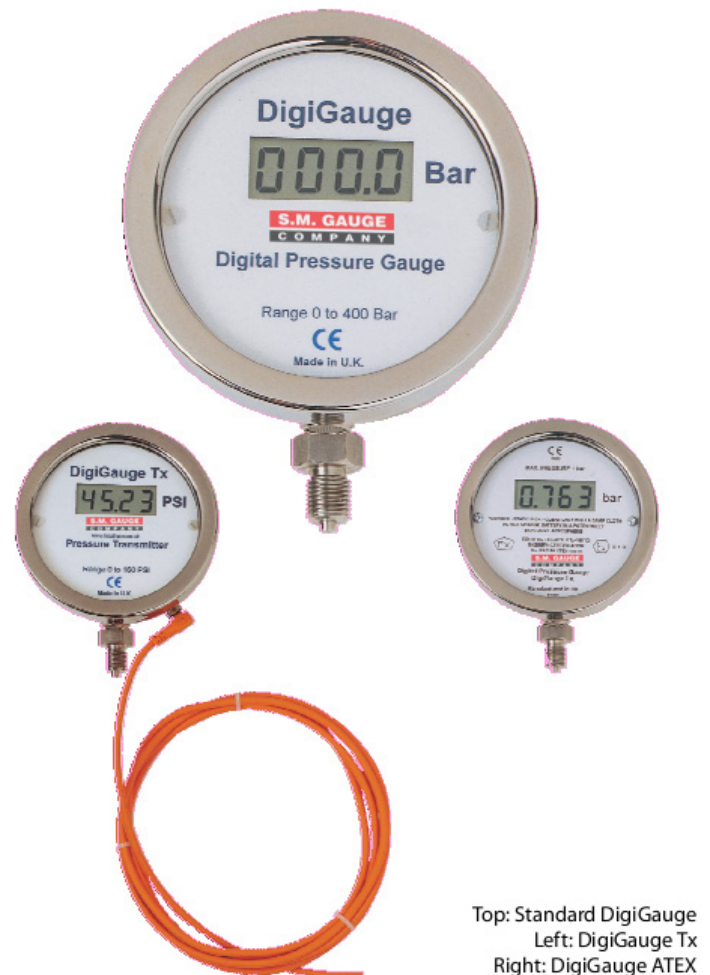


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Top: Standard DigiGauge
Left: DigiGauge Tx
Right: DigiGauge ATEX

Display

4 digit LCD with 12.7mm / 1/2" high characters

Display Update Rate

0.5 seconds or 2 seconds user selectable

Sensor

Alumina ceramic (Al₂O₃) diaphragm strain gauge

Over pressure

Maximum pressure applied to be < 1.25 x full scale

Compensated Range

-10 to 60°C (14 to 140°F)

Wetted Parts

316 stainless steel, Fluorocarbon and ceramic

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Technical Specification (cont.) & Dimensions

Temperature Limits

Storage : -20 to 85°C (-4 to 185°F)
Ambient operating : -20 to 70°C (-4 to 158°F)
Internal Case : -10 to 60°C (14 to 140°F)
Pressure Medium: -20 to 100°C (-4 to 212°F)

Power Source

(3V DC battery), 2 x 1.5V "AA" alkaline cells

Battery Life

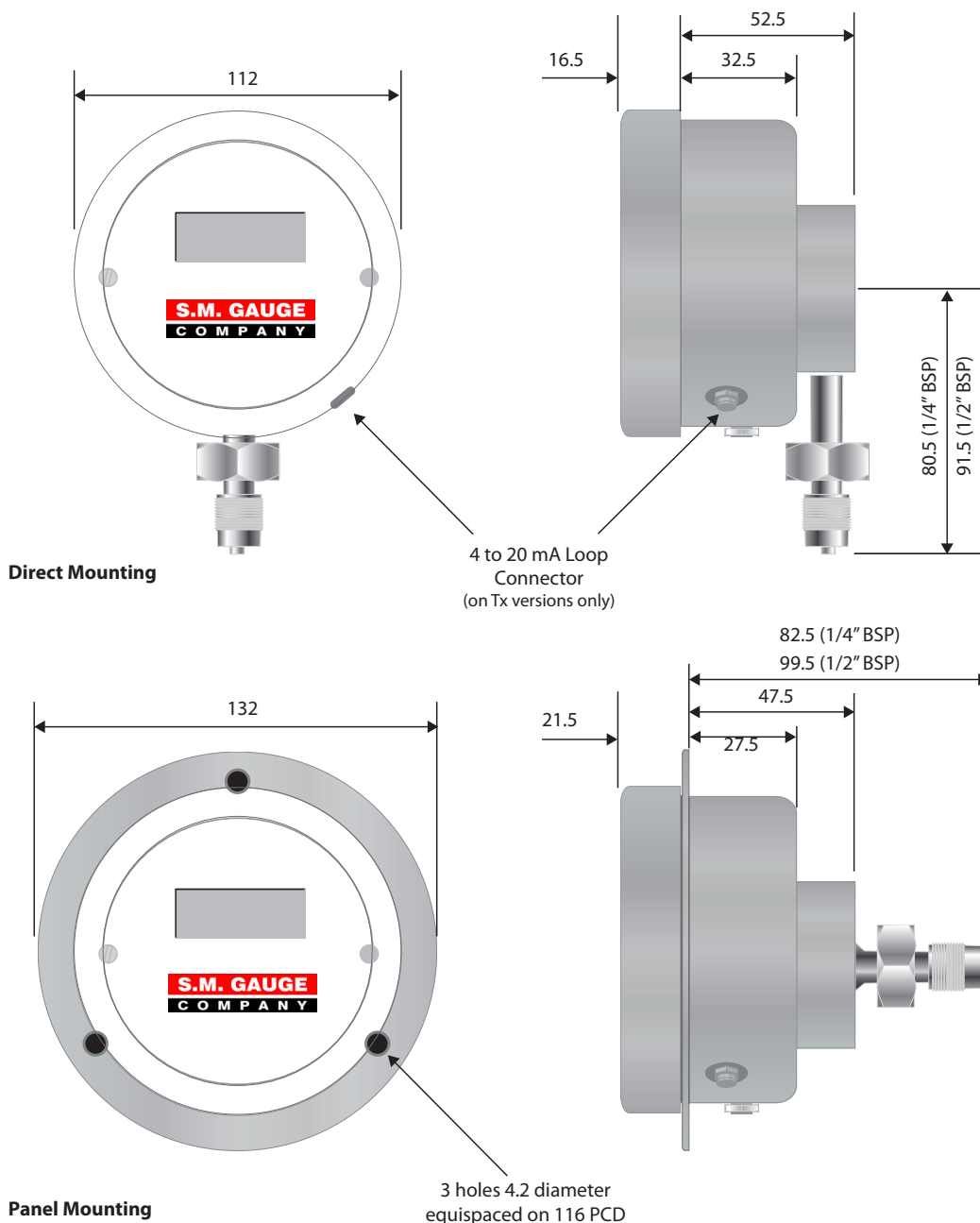
12 months continuous operation at 2 second update.

Low Power Warning*

Display will alternate between reading & "BATT"

Accuracy

See range table below



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Standard Pressure Ranges

Bar Range	Resolution	PSI Range	Resolution	Accuracy*
-1 to +1 bar	1 mbar	-15 to +15 psi	0.01 psi	±0.25%fs
0 to 1 bar	1 mbar	0 to 15 psi	0.01 psi	±0.25%fs
0 to 2 bar	1 mbar	0 to 30 psi	0.01 psi	±0.2%fs
0 to 2.5 bar	1 mbar	0 to 60 psi	0.01 psi	±0.2%fs
0 to 6 bar	1 mbar	0 to 90 psi	0.01 psi	±0.2%fs
0 to 10 bar	10 mbar	0 to 150 psi	0.1 psi	±0.2%fs
0 to 16 bar	10 mbar	0 to 275 psi	0.1 psi	±0.2%fs
0 to 20 bar	10 mbar	0 to 300 psi	0.1 psi	±0.2%fs
0 to 25 bar	10 mbar	0 to 375 psi	0.1 psi	±0.2%fs
0 to 40 bar	10 mbar	0 to 600 psi	1 psi	±0.2%fs
0 to 50 bar	10 mbar	0 to 750 psi	1 psi	±0.2%fs
0 to 60 bar	10 mbar	0 to 900 psi	1 psi	±0.2%fs
0 to 100 bar	100 mbar	0 to 1500 psi	1 psi	±0.2%fs
0 to 200 bar	100 mbar	0 to 3000 psi	1 psi	±0.2%fs
0 to 250 bar	100 mbar	0 to 3750 psi	1 psi	±0.25%fs
0 to 400 bar	100 mbar	0 to 6000 psi	1 psi	±0.25%fs

*Note: Accuracy includes non linearity + hysteresis + repeatability Temperature coefficient of zero and span < 0.02% FS/°C

Order Code - DigiGauge

Standard Version
Intrinsically Safe
Transmitter (4-20 mA)

Mounting

Direct Vertical (bottom entry)
Direct Back
Panel
Surface

Connection

1/4" BSP male
1/4" NPT male
Other (please state requirement)

Pressure Range

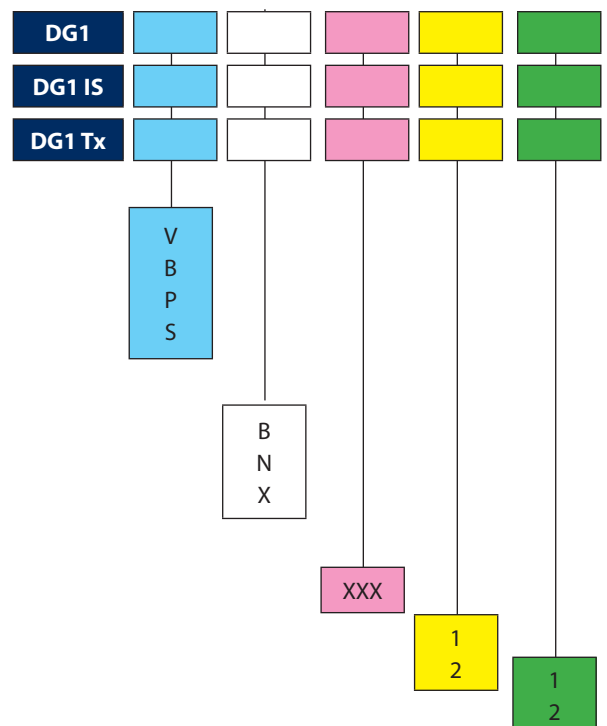
Enter Pressure Range from table

MAX and MIN Pressure Readings

Required
Not Required

Certification

Factory Calibration Certificate
(Supplied as standard) UKAS
Calibration Certificate



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