Model PG100
High Precision Digital Pressure Gauges

Features

- pressure ranges from -1~1 bar to 0~600 bar
- high accuracy up to 0.005%fs
- RS232 communication available on request
- selectable display units
- 5-digit LCD with backlighting
- zero & full scale calibration via panel buttons
- multiple points calibration via panel buttons
- 3 x AA alkaline batteries or 1 x lithium battery as power supply
- sleep mode to save energy
- 316 stainless steel wetted parts
- explosive proof Exia II CT4
- low profile, light weight

Description:

PG100 pressure gauges are high-precision single-range digital pressure gauges which can be used for monitering the pressures measured in power, petrol, chemical, metallurgy, and metering industries.

PG100 gauges are equipped with precision pressure transducer module and high-resolution A/D converter to ensure the precision and the reliability. Via the buttons on the front panel, one can perform two points (zero & span) and multiple points calibration. Various pressure unit, such as Bar, Psi and Pa are available.

The measuring range of PG100 starts from -1~+1 and ends at 0~600 bar with an accuracy up to 0.05%fs. PG100 is powered by either three AA batteries or one lithium battery. Thanks to the sleep mode function, the battery life can last for up to 1 year.

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Technical Data

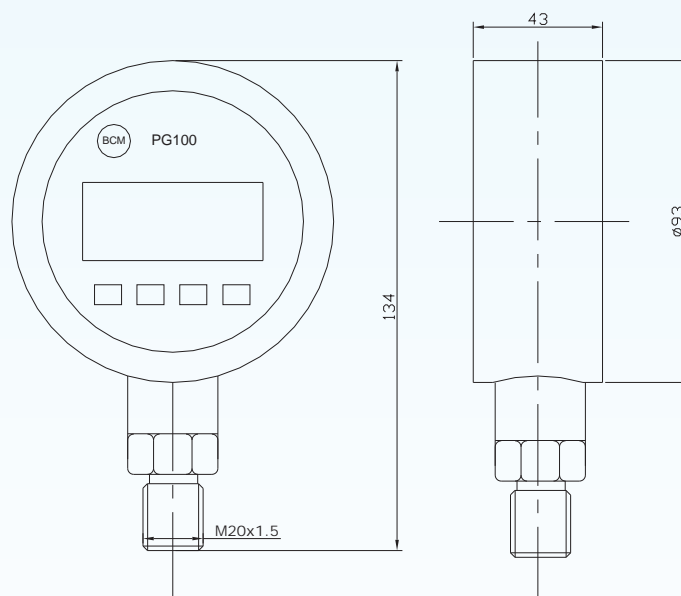| parameters	units	specifications
pressure ranges	barG	-1~1, ..., 0~600 (any ranges within these two ranges)
overload pressure	%fs	110
burst pressure	%fs	150
display units		kPa, MPa, psi, kgf, mmHg, mmH2O, mbar and bar
display		5 digit LCD, 16,5 mm digit height, with backlight
accuracy	%fs	± 0.05, ± 0.1, ± 0.25 (standard), ± 0.5
power supply		3xAA alkaline batteries, or 1 non-rechargable lithium battery*
compensated temperature	°C	0 ~ 50
working temperature	°C	-20 ~ +50
relative humidity	%RH	< 95
barometric pressure	kPa	86 ~ 106
communication protocol (option)		RS232
material of wetted parts		316 stainless steel
mechanical interface		M20x1.5, other threads available on request
electrical interface		3-hole lemo connector (in case of RS232 communication)
explosive proof		Exia II CT4
dimensions	mm	134 x 93 x 43
unit weight	kg	~0.5

The dimensions and specifications are subject to change without prior notice.

*: recommended battery model = (LS14500W)

Dimensions

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BCM SENSOR

Ordering Information

position (pos.) 1: model									
PG100									

pos. 2: ranges

Any range between -1~+1 barG and 0~600 barG   G: gauge pressure

pos. 3: output

LCD: 5 digit LCD display. In case of "LCD", pos. 3 can be omitted from the ordering code.
RS232: 5 digit LCD display with RS232 communication protocl

pos. 4: accuracy

0.05 %fs (standard)
0.1 %fs
0.2 %fs
0.5 %fs

pos. 5: power supply

3 x AA alkaline batteries or 1 lithium battery (not included)
Pos. 5 can be omitted from the ordering code.

pos. 6: material of pressure diaphragm

316L: 316L stainless steel.

pos. 7: mechanical interface

M20x1.5
Others are available on request, be to confirmed when order.

pos. 8: electrical interface

3hLemo: 3-hole lemo connector (for RS232 output)

pos. 9: environment protection

IP 66

pos. 10: customized spec's

When any customized spec's are required, the customer needs to add "C" as the last parameter in the ordering code, and specifies the wished spec's on his order clearly.

The customized spec's needs to be confirmed in advance by BCM's sales representative.

Code "C" can be omitted if no customized spec's are required.

pos.1	pos. 2	pos. 3	pos. 4	pos. 5	pos. 6	pos. 7	pos. 8	pos. 9	pos. 10

example: PG100-0/200barG-RS232-0.05%fs-316L-M20x1.5-3hLemo-IP66-C

ISO9001 Certified Company

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