Bourdon Tube Pressure Gauges with Electrical Output Signal Standard Version Type PGT11

Applications

- For monitoring water pressure changes in heating plants (wall-mounted boilers, free-standing boilers)

Special features

- Non-contact sensor (wear-free)
- Nominal size 1½" (40 mm)
- Scale ranges from 30 PSI to 160 PSI
- Output signal 0.5 to 4.5 V @ 5 V DC



intelliGAUGE Type PGT11

Standard Features

Design
ASME B40.100 & EN 837-1

Sizes
1½" (40 mm)

Accuracy class
± 3/2/3% of span (ASME B40.100 Grade B)

Ranges
Pressure from 0/30 to 0/160 psi
or other equivalent units of pressure or vacuum

Working pressure

Steady:	3/4 x full scale value
Fluctuating:	2/3 x full scale value
Short time:	full scale value

Operating temperature
Ambient: -4°F to +140°F (-20°C to +60°C)
Medium: +190°F (+90°C) maximum

Temperature error
Additional error when temperature changes from reference temperature of 68°F (20°C) ±0.4% for every 18°F (10°C) rising or falling. Percentage of span.

Pressure connection
Material: Polyamid (PA)
Lower mount (LM)
Center back mount (CBM)
1/8" NPT or G 1/8B, 14 mm flats

Bourdon tube
Material: Copper-alloy, C-type

Movement
Copper alloy

Dial
White plastic with black lettering

Pointer
Black plastic

Datasheets showing similar devices:
intelliGAUGE, Standard Version, Cable Outlet; Model PGT11; see data sheet PGT11C
intelliGAUGE, Stainless Steel Case, 2", Model PGT21; see datasheet PGT21

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Case
Polyamid (PA), black

Window
Clear plastic (PA)

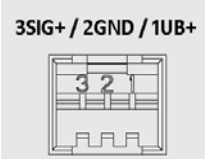
Weather protection
NEMA 1 / IP 40

Optional extras

- Other pressure connections
- Custom dial layout
- Other pressure scales available
  bar, kPa, MPa, kg/cm² and dual scales

Electronics

Output signal (275° scale angle)
0.5 to 2.5 V @ 5 V DC
0.5 to 3.5 V @ 5 V DC
0.5 to 4.5 V @ 5 V DC



Supply voltage
5 V DC

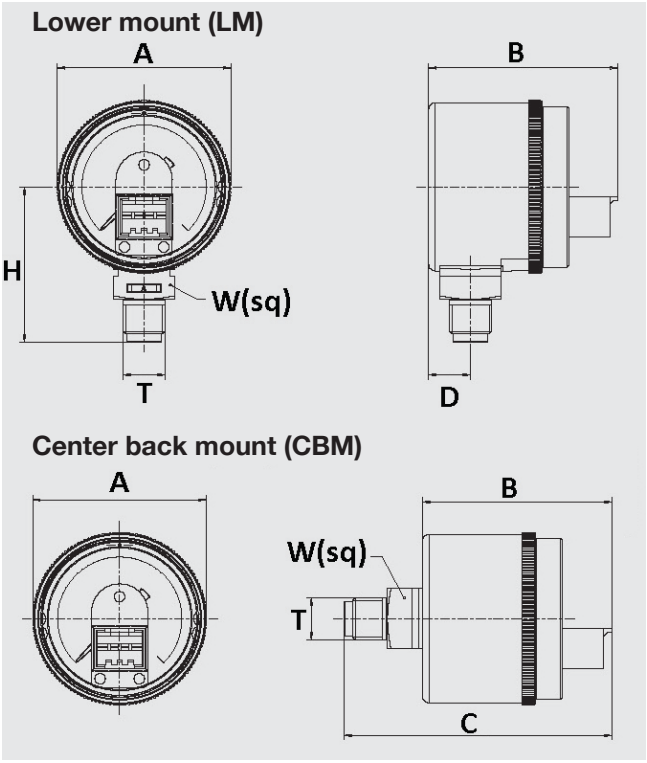
Electrical connections / weather protection
3-pin connector, model AMP Duoplug / IP 40 / NEMA 1
Built-in protection against reverse polarity

Load
> 5 kOhm

Electromagnetic compatibility
According to European test standards EN 61000-4-6 & EN 61000-4-3

CE mark
This product is exclusively intended for installation in instruments that comply with the requirements of the EC directives. The CE proof is provided by the customer.

Dimensions



Dimensions									
Size		A	B	C	D	H	T	W	Weight
1.5”	mm	40	43.5	61.5	9.6	43		14	0.08 kg
	in	1.5	1.71	2.42	0.38	1.69	1/8”	0.55	0.18 lb

Ordering information
Pressure gauge model / Nominal size / Scale range / Size of connection / Optional extras required
Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing.
Modifications may take place and materials specified may be replaced by others without prior notice.

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