Bourdon Tube Pressure Gauges with Stepped Electrical Output Signal Type PGT15

WIKA Datasheet PGT15

intelli<u>GAUGE</u>®

Applications

Measurement of the filling pressure in gas tanks for CNG vehicles



Special features

- Non-contact optical sensor (wear-free)
- Nominal size 2" (50 mm)
- Robust steel case
- Scale range 0/6,000 PSI

Standard Features

Design ASME B40.100 & EN 837-1

Sizes 2" (50 mm)

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

Range 0/6,000 PSI

or other equivalent units of pressure or vacuum

Working pressure

Steady:3/4 x full scale valueFluctuating:2/3 x full scale valueShort time:full scale value

Operating temperature

Ambient: -40°F to +250°F (-40°C to +120°C) Medium: -40°F to +250°F (-40°C to +120°C) (with max. working pressure 4,000 PSI)

Temperature error

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

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Pressure connection

Material: Copper alloy Lower mount (LM) 1/4" NPT or G 1/4B, 14 mm flats

Bourdon tube Material: Copper-alloy, helical type

Movement Copper alloy

Dial White plastic with black lettering and stop pin

Pointer Black plastic

Case Black-painted steel

Window Polycarbonate (PC), with integrated optical electronics

Cover ring Black-painted steel

Weather protection NEMA 3 / IP 54

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Electronics

Output signal (with supply voltage 12 V DC)

Output signal (with supply voltage 5 V DC)

 600 PSI ±150 PSI:
 1.5 V

 1000 PSI ±150 PSI:
 2.5 V

 1500 PSI ±150 PSI:
 3.5 V

 2000 PSI ±150 PSI:
 4.5 V

500 Voltage 5 V DC) 1.5 V ± 0.3 V 2.5 V ± 0.3 V 3.5 V ± 0.5 V 4.5 V ± 0.5 V

Supply voltage

12 or 5 V DC



Electrical connections

Connector, 3-pin, model YST XH (built-in protection against reverse polarity)

Electromagnetic compatibility

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

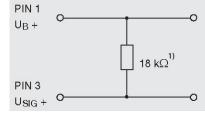
CE mark

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.

Optional extras

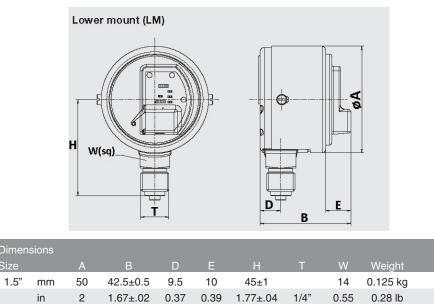
- Other pressure connections
- Custom dial layout
- Other pressure scales available bar, kPa, MPa, kg/cm² and dual scales

Electrical connection details



1) Requires minimum resistive load of 18 $k\Omega$ across pin 1 and pin 3.

Dimensions



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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. WIKA Datasheet PGT15 05/2009



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