Differential Pressure Gauges Model 716.05, Compact Design, with Compression Spring and Sealing Diaphragm, High Overpressure Safety

WIKA Data Sheet PM 07.12

Applications

- Differential pressure measurement at measuring points with very low differential pressures and very high onesided or reciprocal overpressure
- For transparent, clean, non-sticky, non-aggressive media
- Control of ventilator and blast pressures
- Filter monitoring in ventilation and heating systems
- Level measurement in closed tanks



Differential Pressure Gauge Model 716.05

Special Features

- Differential pressure measuring ranges from 0 ... 16 mbar
- High working pressure (static pressure) and high overpressure safety up to 16 bar
- Numerous options for installation, connection form and connection location

Description

Design Small, compact version WIKA trade pattern DT-GM 87 10 226

Nominal size in mm 80

Accuracy class 4.0: scale ranges 0 ... 16 mbar and 0 ... 25 mbar 2.5: scale ranges 0 ... 40 mbar to 0 ... 600 mbar

Scale ranges

0 ... 16 mbar to 0 ... 600 mbar or all other equivalent vacuum or combined pressure and vacuum ranges

Pressure limitationSteady:full scale valueFluctuating:full scale value

WIKA Data Sheet PM 07.12 · 04/2008

Overpressure safety Either side max. 16 bar

Max. working pressure (static pressure) 16 bar

Operating temperature Ambient: -15 ... +60 °C Medium: +70 °C maximum

Temperature effect When temperature of the measuring system deviates from reference temperature (+20 °C): max. ± 0.5 %/10 K of true scale value

Ingress protection IP 66 per EN 60 529 / IEC 529

Page 1 of 3



WIKA Part of your business

Design and operating principle

- Pressure retaining case interior with rolled diaphragm (secondary pressure element) and metal spring elements (primary pressure element)
- Media chamber ⊕ and ⊖ separated by the rolled diaphragm
- Pressure differential between ⊕ and ⊝-side deflects the rolled diaphragm in an axial direction against the spring elements
- The deflection is transmitted by a connecting rod to the movement
- Overpressure safety is provided by metal bolsters resting against the elastic rolled diaphragm

Mounting

according to affixed symbols, \oplus high pressure, \bigcirc low pressure

Mounting by means of

Rigid tailpipes

Options

- Triangular bezel with mounting devices for panel mounting
- Panel or surface mounting flange (steel, black)
- Connections lateral mount
- Pressure connections male (wetted)
- Scale ranges < 0 ... 16 mbar and > 0 ... 600 mbar (please inquire)
- Overpressure safety > 16 bar
- Max. working pressure (static pressure) > 16 bar

Standard version

Process connections (wetted) Lower or back mount, 2 x G ¹/₈ (female)

Case (wetted) Aluminium, black, pressure retaining

Ring Aluminium, black

Pressure element (wetted) Spring element stainless spring steel

Pressure chamber separating diaphragm (wetted) Rolled diaphragm, silicone rubber

Sealings (wetted) NBR

Movement (wetted) Cu-alloy, wear parts argentan

Dial (wetted) Aluminium, white, black lettering

Pointer (wetted) Aluminium, black

Window (wetted) Glass

Weight 0.64 kg



Dimensions in mm



Back mount



Dimensions in mm

Options



Option Triangular bezel with mounting devices for panel







Ordering information

Model / Nominal size / Scale range / Connection size / Connection location / Options

Modifications may take place and materials specified may be replaced by others without prior notice. Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing.

WIKA Data Sheet PM 07.12 · 04/2008

Page 3 of 3



WIKA Alexander Wiegand GmbH & Co. KG Alexander-Wiegand-Straße 30 63911 Klingenberg/Germany Tel. (+49) 9372/132-0 Fax (+49) 9372/132-406 E-mail info@wika.de www.wika.de