

Absolute Pressure Gauges

Compact Design With Capsule Element • Model 516.11

Pressure Gauges

Service intended

Measurement of absolute pressure excluding the effect of barometric pressure variation. Suitable for all clean and dry gaseous media that will not attack copper alloy and aluminium parts.

Design

Small compact design, varied possibility for installation, WIKA trade pattern DT-GM 87 10 226 Variable pressure entry

Nominal size

80 mm

Accuracy class per EN 837-3/6 1.6

Scale ranges per EN 837-3 /5 0 ... 16 to 0 ... 1000 mbar absolute pressure

Working pressure Steady: full scale value Fluctuating: 0.9 x full scale value

Overpressure safety 1 bar absolute (atmospheric pressure) with all scale ranges

Operating temperature

Ambient: -20 ... +60 °C Medium: +70 °C maximum

Temperature error

Additional error when temperature of the pressure element deviates from +20 °C Rising temperature: +0.3%/10 K of true scale value Falling temperature: -0.3%/10 K of true scale value

Degree of protection IP 66 per EN 60 529 / IEC 529

Standard features

Pressure connection (exposed to pressure medium) Threaded entry per EN 837-1 /7.3 G E female

Pressure element (exposed to pressure medium) Material Cu-alloy

The pressure element is evacuated and constitutes pressure datum

Movement (exposed to pressure medium) Material: Cu-alloy

Dial (exposed to pressure medium) White aluminium with black lettering

Pointer (exposed to pressure medium) Black aluminium pointer



Zero adjustment Adjusting provisions at case back

Case (exposed to pressure medium) Black aluminium. Case retains process pressure

Window (exposed to pressure medium) Instrument glass

Sealing rings (exposed to pressure medium) NBR (Buna rubber)

Bezel ring Black aluminium

Black aluminium Gauge mounting

Requires mounting by means of rigid tailpipes, optionally threaded studs at case back. Panel mounting or surface mounting rings optionally available

Optional extras

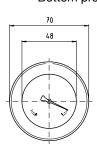
- Other pressure connection
- Mounting studs with bracket
- Panel mounting ring
- Surface mounting ring
- Male thread pressure entry
- Pressure entry with miniature flange DN 10/16 to DIN 28 403
- Radial pressure entry other than bottom

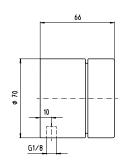
Operating principle

- The case machined from solid aluminium bar retaines the system pressure, whereas the pressure element of either the capsule or the bourdon tube type constitutes the zero pressure datum.
- The particularly shaped capsule fully collapses to provide over-pressure safety independent of the scale range.
- Any pressure applied is measured against the sealed pressure datum to exclude the effect of ambient pressure variation.

Dimensions

Standard version Bottom pressure entry

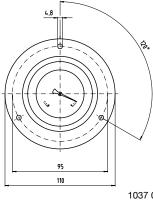


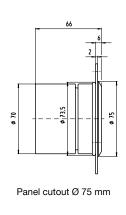


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Optional extras

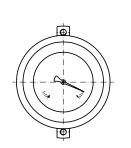
3-hole panel mounting ring

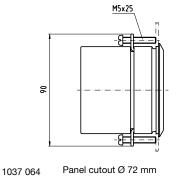




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Narrow panel mounting bezel with fixing clamp







Standard pressure entry with parallel thread and seating to EN 837-3 / 7.3.

Ordering information

State:

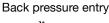
Model / Nominal size / Scale range / Size and location of connection / Optional extras required

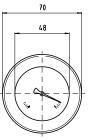
Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.

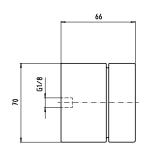


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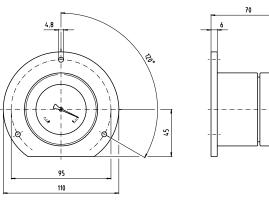






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Surface mounting flange



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Miniature flange connection DN 10/16 DIN 28 403 Bottom entry

Back entry

