Bourdon tube pressure gauges with switch contacts UHP, stainless steel version Model 230.15 with reed contact model 851.3

WIKA data sheet PV 22.05

switch^{GAUGE}

Applications

- For gaseous and liquid, also aggressive media for demanding high purity applications, also in aggressive ambience
- Suitable for all UHP (Ultra High Purity) applications
- Semiconductor and flat panel industry
- Gas distribution systems, medical gases
- Hook-up application

Special features

- Built-in electrical switch contact (reed contact)
- VCR[®] compatible pressure connection threads
- Helium leak tested
- Electropolished case
- Process connection surface finish $Ra \le 0.25 \ \mu m$

40 60 80 -30 GRADE A 100 psi WIKAT

Bourdon tube pressure gauge with reed contact, UHP Model 230.15.2"

Description

Nominal size 2"

Accuracy class Grade A to ASME B40.1

Scale ranges

0 ... 4 to 0 ... 400 bar (0 ... 60 to 0 ... 6000 psi) or all other equivalent vacuum or combined pressure and vacuum ranges

Pressure limitation

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

Operating temperature

Ambient: -20 ... +60 °C Medium: +100 °C maximum

Temperature effect

When the temperature of the measuring system deviates from the reference temperature (+20 °C): max. ± 0.4 %/10 K of full scale value

Ingress protection

IP 54 per EN 60529 / IEC 529

Standard version

Process connection

Stainless steel 316L, lower mount (LM) or back mount, VCR® compatible threaded connection optionally: with union nut (female) with male nut or with male thread 9/16-18 UNF fixed Male thread 1/4 NPT

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Data sheets showing similar products: Stainless steel, UHP version; model 230.15; see data sheet PM 02.20 WIKA Part of your business

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Pressure element

Stainless steel 316L, C-type Measuring system in crevice free design Leak tightness: leak rate $\leq 10^{-9}$ mbar $\cdot 1/s$ Test method: helium mass spectrometry

Movement

Stainless steel

Dial

Aluminium, white, black lettering

Pointer

Aluminium, black

Case

Stainless steel, electropolished

Window

Polycarbonate, screw-fitted on case (twist lock)

Cleaning

Specially cleaned per SEMI standard

Switch contact

- Reed contact model 851.3; the switching function is identified by the index 3; 851.3 = the contact switches (change-over contact)
- Adjustment of switch point

In order to adjust the switch point, the instrument has to be disconnected from the voltage supply and the window has to be unscrewed. The switches are set via the mark pointer on the dial's circumference. The set value of the switch point is adjustable up to 80 % of the scale range.
Electrical load

- max. switching voltage: DC / AC 24 V max. contact rating: 10 W max. current: 0.5 A
- Electrical connection via cable gland
- M8 x 1.25, cable outlet 3 m long, conductor cross section 0.14 mm², flying leads, the terminal assignment is stated on the pressure gauge's connection plate

Options

- Other process connection
- Electrical connection via miniature connector (Binder connector M8 x 1)
- Dual scale

Dimensions in mm

Centre back mount (CBM)

Standard version



76.9 41 Male nut 11 9/16-18 UNF O17Ø 57 8 50 232 43.7 Cable gland (standard) 11245387.01 Miniature conr (option) 20.6 1) ¢ 9,53 O19 Ø 8.86 mm with 1) pressure ranges 250 ... 400 bar Union nut (female) 43.7 (greater wall 9/16-18 UNF thickness) 76.9

Ordering information

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

The specifications given in this document represent the state of engineering at the time of publishing. We reserve the right to make modifications to the specifications and materials.

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