## Pressure

## Diaphragm pressure gauge with switch contacts Model 432.56, high overload safety up to 100 bar Model 432.36, safety version, high overload safety up to 400 bar

## Ex Eh[Ex國罭 <br> 

## Applications

- Control and regulation of processes at measuring points with increased overload and scale ranges from 0 ... 25 mbar
- Monitoring of plants and switching of circuits
- For gaseous and liquid, aggressive and highly viscous or contaminated media, also in aggressive environments
■ Process industry: Chemical industry, petrochemical industry, power plants, mining, on-/offshore, environmental technology, machine building and general plant construction


## Special features

- High overload safety, optionally up to 40, 100 or 400 bar, due to the metallic pressure element limit stop, without liquidfilled measuring cell
- Wide choice of special materials
- Also available with liquid-filled case for high dynamic pressure loads or vibrations
- Instruments with inductive contacts for use in hazardous areas
- Instruments with switch contact for PLC applications


## Description

Wherever the process pressure has to be indicated locally and, at the same time, circuits need to be switched, the model 432.56 or 432.36 switchGAUGE finds its use. Switch contacts (electrical alarm contacts) make or break circuits dependent upon the pointer position of the indicating measuring instruments. The switch contacts are adjustable over the full extent of the scale range (see DIN 16085), and are mounted predominantly below the dial, though also partly on top of the dial. The instrument pointer (actual value pointer) moves freely across the entire scale range, independent of the setting.
The set pointer can be adjusted using a removable adjustment key in the window.
for further approvals see page 9


Diaphragm pressure gauge with switch contacts, model 432.56.100, high overload safety up to 40 bar

Switch contacts consisting of several contacts can also be set to a single set point. Contact actuation is made when the actual value pointer travels beyond or below the desired set point.

The pressure gauge is manufactured in accordance with DIN 16085 and fulfils all requirements of the relevant standards (EN 837-3) and regulations for the on-site display of the working pressure of pressure vessels.
As switch contacts, magnetic snap-action contacts, reed switches, inductive contacts and electronic contacts are available. Inductive contacts can be used in hazardous areas.

## Specifications

Model 432.56 and model 432.36

| Nominal size in mm | $\begin{aligned} & 100 \\ & \square \\ & 160 \end{aligned}$ |
| :---: | :---: |
| Accuracy class | $1.6^{1)}$ <br> Option: $1.0^{2)}$ |
| Scale ranges ${ }^{3)}$ | $0 \ldots 25 \mathrm{mbar}$ to $0 \ldots 250 \mathrm{mbar}$ (flange Ø 160 mm ) $0 \ldots 400 \mathrm{mbar}$ to $0 \ldots 40$ bar (flange $\varnothing 100 \mathrm{~mm}$ ) other units (e.g. psi, kPa) available or all other equivalent vacuum or combined pressure and vacuum ranges |
| Scale | Single scale <br> Option: <br> Dual scale |
| Pressure limitation |  |
| Steady | Full scale value |
| Fluctuating | 0.9 x full scale value |
| Overload safety ${ }^{3}$ | - 40 bar <br> - 100 bar <br> - 400 bar (only for scale ranges $\geq 0 \ldots 400$ mbar ${ }^{4}$ ) <br> Option: <br> Vacuum safety to -1 bar |
| Process connection with lower measuring flange | - $G 112 B$ <br> - $1 / 2$ NPT <br> - $1 / 2$ NPT female <br> - Open connecting flange DN 25 PN 40 per EN 1092-1, form B <br> - Open connecting flange DN 50 PN 40 per EN 1092-1, form B <br> - Open connecting flange 1" class 300, RF per ASME B16.5 <br> - Open connecting flange 2" class 300, RF per ASME B16.5 <br> and other threaded connections and open connecting flanges per EN/ASME from DN 15 to DN 80 (see data sheet IN 00.10) |
| Permissible temperature ${ }^{5)}$ |  |
| Medium | $+100^{\circ} \mathrm{C}\left[+212^{\circ} \mathrm{F}\right]$ maximum Option: <br> $+200^{\circ} \mathrm{C}\left[+392^{\circ} \mathrm{F}\right]$ maximum |
| Ambient | $-20 \ldots+60^{\circ} \mathrm{C}\left[-4 \ldots+140^{\circ} \mathrm{F}\right]$ |
| Temperature effect | When the temperature of the measuring system deviates from the reference temperature $\left(+20^{\circ} \mathrm{C}\right)$ : max. $\pm 0.8 \% / 10 \mathrm{~K}$ of full scale value |
| Case | - Model 432.56: Version S1 per EN 837: With blow-out device in case back <br> - Model 432.36: Safety version S3 per EN 837: With solid baffle wall (Solidfront) and blow-out back <br> Instruments with liquid filling with compensating valve to vent case |
| Case filling | Without <br> Option: <br> With silicone oil M50 case filling, ingress protection IP65 (models 433.56, 433.36) |

[^0]Model 432.56 and model 432.36

| Wetted materials |  |
| :---: | :---: |
| Diaphragm element (pressure element) | $\leq 0.25$ bar: Stainless steel 316L <br> $>0.25$ bar: NiCr alloy (Inconel) <br> Option: Coated with special materials such as PTFE, Hastelloy, Monel, nickel, tantalum, titanium, silver (instruments with accuracy class 2.5) |
| Process connection with lower measuring flange | Stainless steel 316L <br> Option: Lined/coated with special materials such as PTFE, Hastelloy, Monel, nickel, tantalum, titanium, silver |
| Pressure chamber sealing | FPM/FKM |
| Non-wetted materials |  |
| Case with upper measuring flange and flange connecting screws, movement, bayonet ring | Stainless steel |
| Dial | Aluminium, white, black lettering |
| Instrument pointer | Aluminium, black |
| Set pointer | Aluminium, red |
| Window | Laminated safety glass |
| Ingress protection per IEC/EN 60529 | IP54 <br> Option: IP65 |
| Electrical connection | Cable socket PA 6, black <br> Per VDE 0110 insulation group C/250 V <br> Cable gland M20 $\times 1.5$ <br> Strain relief <br> 6 screw terminals + PE for conductor cross-section $2.5 \mathrm{~mm}^{2}$ <br> For dimensions see page 10 <br> others on request |

## Switch contacts

Magnetic snap-action contact model 821

- No control unit and no supply voltage required
- Direct switching up to $250 \mathrm{~V}, 1 \mathrm{~A}$

■ Up to 4 switch contacts per measuring instrument

## Inductive contact model 831

- Suitable for use in hazardous areas with corresponding control unit (model 904.xx)
- Long service life due to non-contact sensor
- Low influence on the indication accuracy
- Fail-safe switching at high switching frequency
- Insensitive to corrosion
- Also available in safety version
- Up to 3 switch contacts per measuring instrument


## Electronic contact model 830 E

- For direct triggering of a programmable logic controller (PLC)
- 2-wire system (option: 3-wire system)
- Long service life due to non-contact sensor
- Low influence on the indication accuracy

■ Fail-safe switching at high switching frequency

- Insensitive to corrosion

■ Up to 3 switch contacts per measuring instrument

## Other versions

- Contact model 821 with separate circuits
- Contact model 821 as change-over contact (break or make simultaneously at the set point)
- Contact model 821 with cable break monitoring (parallel resistance $47 \mathrm{k} \Omega$ and $100 \mathrm{k} \Omega$ )
- Contact materials for contact model 821: Platinum-iridium alloy and gold-silver alloy


## Reed switch model 851

■ No control unit and no supply voltage required

- Direct switching up to $250 \mathrm{~V}, 1 \mathrm{~A}$
- For direct triggering of a programmable logic controller (PLC)
- Free from wear as without contact
- NS 100: Up to two change-over contacts per measuring instrument
NS 160: Up to one change-over contact per measuring instrument (switching voltages AC $<50 \mathrm{~V}$ and $\mathrm{DC}<75 \mathrm{~V}$, switch contact not adjustable from outside)


## Switching function

The switching function of the switch is indicated by index 1 , 2 or 3
Model Normally open (clockwise pointer motion)
8xx.1:
Model Normally closed (clockwise pointer motion)
8xx.2:
Models Change-over; one contact breaks and one 821.3 and contact makes simultaneously when pointer
851.3: reaches set point

For further information on switch contacts, see data sheet AC 08.01

■ Contacts fixed, without contact adjustment lock

- Contact adjustment lock leaded
- Contact adjustment key fixed
- Connector (instead of cable socket)


## Specifications for instruments with magnetic snap-action contact model 821

| Measuring <br> span ${ }^{1)}$ | Max. number of con- <br> tacts | Switching current <br> range I | Switch version ${ }^{2)}$ |
| :--- | :--- | :--- | :--- |
| $\geq \mathbf{2 5}$ mbar | 2 | $0.02 \ldots 0.3 \mathrm{~A}$ | L |
| $\geq \mathbf{4 0}$ mbar | 4 | $0.02 \ldots 0.3 \mathrm{~A}$ | L |

1) Accuracy class 2.5 for scale range $0 \ldots 25 \mathrm{mbar}$ and for scale range $0 \ldots 40 \mathrm{mbar}$ with 3 or 4 contacts
2) Design of the contact coil: Version "L" = light-weight

The recommended setting range of the contacts is $25 \ldots 75 \%$ of the scale ( $0 \ldots 100 \%$ on request). Contact material (standard): Silver-nickel, gold-plated

## Setting the contacts

The recommended minimum clearance between 2 contacts is $20 \%$ of the measuring span.
The switch hysteresis is $2 \ldots 5 \%$ (typical).

| Characteristics | Unfilled instruments | Filled instruments |
| :--- | :--- | :--- |
|  | Resistive load |  |
| Rated operating voltage Ueff | $\leq 250 \mathrm{~V}$ | $\leq 250 \mathrm{~V}$ |
| Rated operating current <br> Switch-on current |  |  |
| Switch-off current <br> Continuous current | $\leq 0.5 \mathrm{~A}$ | $\leq 0.5 \mathrm{~A}$ |
| Switching power | $\leq 0.3 \mathrm{~A}$ | $\leq 0.5 \mathrm{~A}$ |

Recommended contact load with resistive and inductive loads

| Operating voltage | Unfilled instruments |  |  | Filled instruments |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Resistive load |  | Inductive load$\cos \varphi>0.7$ | Resistive load |  | Inductive load |
|  | Direct current | Alternating current |  | Direct current | Alternating current | $\cos \varphi>0.7$ |
| DC 220 V / AC 230 V | 100 mA | 120 mA | 65 mA | 65 mA | 90 mA | 40 mA |
| DC $110 \mathrm{~V} / \mathrm{AC} 110 \mathrm{~V}$ | 200 mA | 240 mA | 130 mA | 130 mA | 180 mA | 85 mA |
| DC $48 \mathrm{~V} / \mathrm{AC} 48 \mathrm{~V}$ | 300 mA | 450 mA | 200 mA | 190 mA | 330 mA | 130 mA |
| DC $24 \mathrm{~V} / \mathrm{AC} 24 \mathrm{~V}$ | 400 mA | 600 mA | 250 mA | 250 mA | 450 mA | 150 mA |

## Specifications for instruments with inductive contact model 831

| Measuring span ${ }^{1)}$ | Max. number of contacts |
| :--- | :--- |
| $\mathbf{~} \mathbf{2 5}$ mbar | 3 |
|  | 1) Accuracy class 2.5 for scale range $0 \ldots 25$ mbar |

The recommended setting range of the contacts is $10 \ldots 90 \%$ of the scale ( $0 \ldots 100 \%$ on request).

## Setting of contacts to identical set point

Up to 2 contacts can be set to an identical set point. For a version with 3 contacts this is not possible. The left (no. 1) or right (no. 3) contact may not be set to the same set point as the other 2 contacts. The required displacement is approx. $30^{\circ}$, optionally to the right or to the left.

## Available contact versions

- 831-N
- 831-SN, safety version ${ }^{1)}$
- 831-S1N, safety version ${ }^{1)}$, inverted signal

1) only operate with a corresponding isolating amplifier (model 904.3x)

Permissible temperature ranges

| T6 | $\mathrm{T} 5 \ldots \mathrm{~T} 1$ | $\mathrm{~T} 135^{\circ} \mathrm{C}$ |
| :--- | :--- | :--- |
| $-20 \ldots+60^{\circ} \mathrm{C}$ | $-20 \ldots+70^{\circ} \mathrm{C}$ | $-20 \ldots+70^{\circ} \mathrm{C}$ |

For further information on hazardous areas, see operating instructions.

Associated isolating amplifiers and control units

| Model | Version | Ex version |
| :--- | :--- | :--- |
| 904.28 KFA6 - SR2 - Ex1.W | 1 contact | yes |
| 904.29 KFA6 - SR2 - Ex2.W | 2 contacts | yes |
| 904.30 KHA6 - SH - Ex1 | 1 contact | yes - safety equipment |
| 904.33 KFD2 - SH - Ex1 | 1 contact | yes - safety equipment |
| 904.25 MSR 010-I | 1 contact | no |
| 904.26 MSR 020-I | 2 contacts | no |
| 904.27 MSR 011-I | Two-point control | no |

## Specifications for instruments with electronic contact model 830 E

| Measuring span | Max. number of contacts |
| :--- | :--- |
| $\geq \mathbf{2 5}$ mbar | 3 |

The recommended setting range of the contacts is $10 \ldots 90 \%$ of the scale ( $0 \ldots 100 \%$ on request).

## Setting of contacts to identical set point

Up to 2 contacts can be set to an identical set point. For a version with 3 contacts this is not possible. The left (no. 1) or right (no. 3) contact may not be set to the same set point as the other 2 contacts. The required displacement is approx. $30^{\circ}$, optionally to the right or to the left.

| Characteristics |  |
| :--- | :--- |
| Contact version | Normally open, normally closed |
| Type of output | DC $10 \ldots 30 \mathrm{~V}$ |
| Operating voltage | $\mathrm{max} .10 \%$ |
| Residual ripple | $\leq 10 \mathrm{~mA}$ |
| No-load current | $\leq 100 \mathrm{~mA}$ |
| Switching current | $\leq 100 \mathrm{HA}$ |
| Residual current | $\leq 0.7 \mathrm{~V}$ |
| Voltage drop (with Imax.) | Conditional $\mathrm{U}_{\mathrm{B}}$ (the switched output 3 or 4 must never be set directly to minus) |
| Reverse polarity protection | $1 \mathrm{kV}, 0.1 \mathrm{~ms}, 1 \mathrm{k} \Omega$ |
| Anti-inductive protection | approx. $1,000 \mathrm{kHz}$ |
| Oscillator frequency | per EN $60947-5-2$ |
| EMC |  |

## Specifications for instruments with reed switch model 851

| Measuring span ${ }^{1}$ ) | Case version | Max. number of contacts |
| :--- | :--- | :--- |
| $\geq \mathbf{2 5}$ mbar | S1, S3 ${ }^{2)}$ | 2 |

1) Accuracy class 2.5 for scale range $0 \ldots 25$ mbar
2) Case version S3 with NS 100

Legend:
S1 = Standard version, with blow-out device (per EN 837)
S3 = Safety version, Solidfront (per EN 837)
Switching power $\mathrm{P}_{\max } 60 \mathrm{~W} / 60 \mathrm{VA}$
Switching current 1 A

| Characteristics | Change-over contact |
| :--- | :--- |
| Contact version | Bistable |
| Type of contact | $\mathrm{AC} / \mathrm{DC} 250 \mathrm{~V}$ |
| Max. switching voltage | Not required |
| Min. switching voltage | $\mathrm{AC} / \mathrm{DC} 1 \mathrm{~A}$ |
| Switching current | Not required |
| Min. switching current | $\mathrm{AC} / \mathrm{DC} 2 \mathrm{~A}$ |
| Transport current | 1 |
| cos $\boldsymbol{\varphi}$ | $60 \mathrm{~W} / \mathrm{VA}$ |
| Switching power | $100 \mathrm{~m} \Omega$ |
| Contact resistance (static) | $10^{9} \Omega$ |
| Insulation resistance | $\mathrm{DC} 1,000 \mathrm{~V}$ |
| Breakdown voltage | 4.5 ms |
| Switching time incl. contact chatter | Rhodium |
| Contact material | 3 ...5 $\%$ |
| Switch hysteresis |  |

- The limit values presented here must not be exceeded.

■ When using two contacts, these cannot be set to the same point. Depending on the switching function, a minimum clearance of $15 \ldots 30^{\circ}$ is required.

- The setting range of the contacts is $10 \ldots 90 \%$ of the scale.
- The switching function can be set in manufacturing such that the reed contact will actuate exactly at the required switch point. For this, we need the switching direction to be specified on order.


## Approvals

| Logo | Description | Country |
| :---: | :---: | :---: |
|  | EU declaration of conformity <br> - EMC directive <br> - Pressure equipment directive <br> - ATEX directive (option) ${ }^{1)}$ <br> Hazardous areas <br> - Ex ia Gas [II 2G Ex ia IIC T6/T5/T4 Gb] <br> Dust [II 2D Ex ia IIIB T $135^{\circ} \mathrm{C} \mathrm{Db]}$ <br> Hazardous areas for instruments with PTFE lining <br> - Ex ia <br> Gas <br> [II 2G Ex ia IIB T6/T5/T4 Gb] | European Union |
| IEC TEGEX | IECEx (option) ${ }^{1)}$ <br> Hazardous areas <br> - Ex ia Gas [Ex ia IIC T6/T5/T4 Gb] <br> Dust [Ex ia IIIBT135 ${ }^{\circ} \mathrm{CDb}$ ] <br> Hazardous areas for instruments with PTFE lining - Exia Gas [ExialIB T6/T5/T4 Gb] | International |
| EH[Ex | EAC (option) <br> - Low voltage directive <br> - Hazardous areas ${ }^{1)}$ | Eurasian Economic Community |
| © | GOST (option) <br> Metrology, measurement technology | Russia |
| $\mathbb{B}$ | KazInMetr (option) <br> Metrology, measurement technology | Kazakhstan |
| - | MTSCHS (option) <br> Permission for commissioning | Kazakhstan |
| (10) | BelGIM (option) <br> Metrology, measurement technology | Belarus |
| (c) | UkrSEPRO (option) Metrology, measurement technology | Ukraine |
| (1) | Uzstandard (option) <br> Metrology, measurement technology | Uzbekistan |
| - | CPA <br> Metrology, measurement technology | China |
| $\mathfrak{G}$ | KCs (KOSHA) (option) Hazardous areas ${ }^{1)}$ | South Korea |
| - | CRN Safety (e.g. electr. safety, overpressure, ...) | Canada |

1) Only for instruments with inductive contact model 831

## Certificates (option)

■ 2.2 test report per EN 10204 (e.g. state-of-the-art manufacturing, indication accuracy)
■ 3.1 inspection certificate per EN 10204 (e.g. indication accuracy)

Approvals and certificates, see website

## Accessories

- Sealings (model 910.17, see data sheet AC 09.08)
- Valves (models IV20/IV21, see data sheet AC 09.19, and models IV10/IV11, see data sheet AC 09.22)
- Syphons (model 910.15, see data sheet AC 09.06)
- Cooling element (model 910.32, see data sheet AC 09.21)

■ Additional wall bracket for model 432.36, high overload safety up to 400 bar ${ }^{1)}$

1) Recommendation with vibration load $>0.5 \mathrm{~g}$

## Dimensions in mm

## Standard cable socket

Contact models: 821 and 851


Only use cable with a diameter of $5 \ldots 10 \mathrm{~mm}$

Contact models: 831 and 830 E


Only use cable with a diameter of $7 \ldots 13 \mathrm{~mm}$

NS 100 instruments with contact models 821 or 851 are delivered with the cable socket turned through $180^{\circ}$ for measuring ranges $\leq 250 \mathrm{mbar}$ or for process connections with open connecting flanges.

## Cable socket, turned through $180^{\circ}$



## Dimensions in mm

switchGAUGE model 432.56.100, with switch contact model 821, 831 or 830 E


| Type of contact | Dimensions in mm |  |
| :--- | :--- | :--- |
|  | X | Y |
| Single or double contact | 88 | 55 |
| Double (change-over) contact | 113 | 80 |
| Triple contact | 96 | 63 |
| Quadruple contact | 113 | 80 |


| Scale ranges | Overload safety | Dimensions in mm |  |  |
| :---: | :---: | :---: | :---: | :---: |
| in bar | in bar | d | $\mathrm{h} \pm 2$ | SW |
| $\leq 0.25$ | 40 | 160 | 135 | 27 |
|  | 100 | 160 | 143 | 22 |
| > 0.25 | 40 | 100 | 135 | 27 |
|  | 100 | 100 | 135 | 27 |
|  | 400 | 128 | 169 | 22 |

switchGAUGE model 432.56.160, with switch contact model 821 , 831 or 830 E


| Type of contact | Dimensions in mm |
| :--- | :--- |
|  | X |
| Single or double contact | 102 |
| Double (change-over) contact | 116 |
| Triple contact | 102 |
| Quadruple contact | 116 |


| Scale ranges | Overload safety | Dimensions in mm |  |  |
| :--- | :--- | :--- | :--- | :--- |
| in bar | in bar | d | $\mathbf{h} \pm \mathbf{2}$ | SW |
| $\mathbf{\leq 0 . 2 5}$ | 40 | 160 | 165 | 27 |
| $\mathbf{~} \mathbf{3 5}$ | 100 | 160 | 173 | 22 |
|  | 40 | 100 | 165 | 27 |
|  | 100 | 100 | 165 | 27 |
|  | 400 | 128 | 199 | 22 |

switchGAUGE model 432.36.100, with switch contact model 821,831 or 830 E


| Type of contact | Dimensions in mm |  |
| :--- | :--- | :--- |
|  | X | Y |
| Single or double contact | 97 | 55 |
| Double (change-over) contact | 122 | 80 |
| Triple contact | 105 | 63 |
| Quadruple contact | 122 | 80 |


| Scale ranges | Overload safety | Dimensions in mm |  |  |
| :---: | :---: | :---: | :---: | :---: |
| in bar | in bar | d | $\mathrm{h} \pm 2$ | SW |
| $\leq 0.25$ | 40 | 160 | 135 | 27 |
|  | 100 | 160 | 143 | 22 |
| > 0.25 | 40 | 100 | 135 | 27 |
|  | 100 | 100 | 135 | 27 |
|  | 400 | 128 | 169 | 22 |

switchGAUGE model 432.36.160, with switch contact model 821 , 831 or 830 E


| Type of contact | Dimensions in $\mathbf{m m}$ |  |
| :--- | :--- | :--- |
|  | X | Y |
| Single or double contact | 141 | 48 |
| Triple contact | 153.5 | 60.5 |


| Scale ranges | Overload safety | Dimensions in mm |  |  |
| :--- | :--- | :--- | :--- | :--- |
| in bar | in bar | d | $\mathbf{h} \pm \mathbf{2}$ | SW |
| $\mathbf{\leq 0 . 2 5}$ | 40 | 160 | 165 | 27 |
|  | 100 | 160 | 173 | 22 |
| $\mathbf{> ~ 0 . 2 5}$ | 40 | 100 | 165 | 27 |
|  | 100 | 100 | 165 | 27 |
|  | 400 | 128 | 199 | 22 |



| Scale ranges | Overload safety | Dimensions in mm |  |  |
| :---: | :---: | :---: | :---: | :---: |
| in bar | in bar | d | $\mathrm{h} \pm 2$ | SW |
| $\leq 0.25$ | 40 | 160 | 135 | 27 |
|  | 100 | 160 | 143 | 22 |
| > 0.25 | 40 | 100 | 135 | 27 |
|  | 100 | 100 | 135 | 27 |



| Scale ranges | Overload safety | Dimensions in mm |  |  |
| :--- | :--- | :--- | :--- | :--- |
| in bar | in bar | d | $\mathbf{h} \pm \mathbf{2}$ | SW |
| $\mathbf{\leq 0 . 2 5}$ | 40 | 160 | 165 | 27 |
|  | 100 | 160 | 173 | 22 |
| $\mathbf{> y} \mathbf{0 . 2 5}$ | 40 | 100 | 165 | 27 |
|  | 100 | 100 | 165 | 27 |

switchGAUGE model 432.36.100, with switch contact model 851.3 or 851.33


| Scale ranges | Overload safety | Dimensions in mm |  |  |
| :--- | :--- | :--- | :--- | :--- |
| in bar | in bar | d | $\mathbf{h} \pm \mathbf{2}$ | SW |
| $\mathbf{\leq 0 . 2 5}$ | 40 | 160 | 135 | 27 |
|  | 100 | 160 | 143 | 22 |
| $\mathbf{> 0} \mathbf{0 . 2 5}$ | 40 | 100 | 135 | 27 |
|  | 100 | 100 | 135 | 27 |
|  | 400 | 128 | 169 | 22 |

## Ordering information

Model / Nominal size / Overload safety / Scale range / Type of contact and switching function / Process connection / Options

[^1]
## WIKA

WIKA Alexander Wiegand SE \& Co. KG
Alexander-Wiegand-Straße 30
63911 Klingenberg/Germany
Tel. +499372 132-0
Fax +49 9372 132-406
info@wika.de
www.wika.de


[^0]:    1) Accuracy class 2.5 with smallest scale range. Depending on the built-in contact model, $0 \ldots 25$ mbar or 0 ... 40 mbar
    2) Application test required
    3) Depending on scale range and overload safety, different flange $\varnothing$ apply. See dimensions from page 5.
    4) 400 bar overload safety for scale ranges < 400 mbar on request
    5) For hazardous areas, the permissible temperature of the contact model 831 will exclusively apply (see page 5). These must not be exceeded at the instrument either (for details see operating instructions). If necessary, measures for cooling (e.g. syphon, instrumentation valve, etc.) have to be taken.
[^1]:    © 04/2010 WIKA Alexander Wiegand SE \& Co. KG, all rights reserved.
    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.

