

Mechatronic

pressure measuring instruments



 Part of your business

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Ability to meet any challenge

As a family-run business acting globally, with over 9,000 highly qualified employees, the WIKA group of companies is a worldwide leader in pressure and temperature measurement. The company also sets the standard in the measurement of level and flow, and in calibration technology. Founded in 1946, WIKA is today a strong and reliable partner for all the requirements of industrial measurement technology, thanks to a broad portfolio of high-precision instruments and comprehensive services.

With manufacturing locations around the globe, WIKA ensures flexibility and the highest delivery performance. Every year, over 50 million quality products, both standard and customer-specific solutions, are delivered in batches of 1 to over 10,000 units. With numerous wholly-owned subsidiaries and partners, WIKA competently and reliably supports its customers worldwide. Our experienced engineers and sales experts are your competent and dependable contacts locally.



Efficient logistics



Fully automatic production



Certified calibration laboratories

WIKA product lines

The WIKA programme covers the following product lines for various fields of application.

Electronic pressure measurement

WIKA offers a complete range of electronic pressure measuring instruments: pressure sensors, pressure switches, pressure transmitters and process transmitters for the measurement of gauge, absolute and differential pressure. Our pressure measuring instruments are available in the measuring ranges 0 ... 0.6 mbar to 0 ... 15,000 bar. These instruments come supplied with standardised current or voltage output signals (also intrinsically safe per ATEX or with flameproof enclosure), interfaces and protocols for various field buses. Whether ceramic thick film, metal thin film or piezo-resistive, WIKA is the leading manufacturer worldwide that develops and produces the full range of today's leading sensor technologies.

Mechatronic pressure measurement

As a result of the almost unlimited options for different combinations of mechanical and electrical connections, an extraordinary range of instrument variants is possible. Various digital and analogue output signals are also available for these measuring instruments.

For our measuring instruments we use latest sensors, tested in automotive applications millions of times over. They work without any kind of mechanical contact, consequently they are wear-resistant, and there's absolutely no influence on the mechanics.

Mechanical pressure measurement

Indicating pressure gauges for gauge, absolute and differential pressure with Bourdon tube, diaphragm or capsule pressure elements have been tested millions of times over. These instruments cover scale ranges from 0 ... 0.5 mbar to 0 ... 7,000 bar and indication accuracies of up to 0.1 %.

Diaphragm seals

WIKA diaphragm seals, mounted with pressure gauges, pressure transducers, pressure transmitters etc., are recognised and valued internationally for the most difficult of measuring tasks. The measuring instruments can therefore be used at extreme temperatures (-130 ... +400 °C), and with aggressive, corrosive, heterogeneous, abrasive, highly viscous or toxic media. The optimal diaphragm seal designs, materials and filling media are available for each application.

Electrical temperature measurement

Our range of products includes thermocouples, resistance thermometers (also with on-site display), temperature switches as well as analogue and digital temperature transmitters for all industrial applications. Measuring ranges from -200 ... +1,700 °C are covered.

Mechatronic temperature measurement

As a result of the integration of switch contacts and output signals into our mechanical temperature measuring instruments, we can offer a wide variety of combined instruments. With switch contacts the pointer position triggers a change-over. Electrical output signals are realised via an additional, independent sensor circuit (resistance thermometer or thermocouple).

Mechanical temperature measurement

The mechanical temperature measuring instruments work on the bimetal, expansion or gas actuation principle and cover scale ranges from -200 ... +700 °C. All thermometers are suited for operation in a thermowell if necessary.

Level measurement

WIKA has a comprehensive range of level measuring instruments available for temperatures up to 450 °C, specific gravity from 400 kg/m³ and pressure ranges up to 500 bar. This includes standard instruments and customised products.

Flow measurement

Orifice plates, meter runs, flow nozzles, Venturi tubes and pitot tubes are part of our portfolio of primary flow elements and restriction orifices. The wide range of our products is able to cover the majority of industrial applications. Customised solutions can be developed to meet your special needs.

Calibration technology

WIKA offers a broad product range of calibration instruments for the physical units of measurement for pressure and temperature, and for electrical measurands. Numerous patents ensure unmatched performance from many of our calibration instruments. The range of services covers the calibration of pressure and temperature measuring instruments in our accredited DKD/DAkKS calibration laboratories and a mobile service to calibrate your instruments on site.

Pressure gauges with electrical output signal

The multi-functional intelliGAUGEs present a cost-effective and, at the same time, reliable solution for nearly all pressure measurement applications. They combine the analogue indication of a mechanical pressure gauge, needing no external power, with the electrical output signal of a pressure transmitter. These hybrid instruments are available with all commonly used electrical signals. The sensor works in a non-contact way, without any influence on the measurement signal. Many of the instruments can be delivered in accordance with ATEX Ex II 2 G ia.

Depending on the pressure gauge, the following electrical output signals are possible:

- 0.5 ... 4.5 V ratiometric
- 4 ... 20 mA, 2-wire
- 4 ... 20 mA, 2-wire with Ex approvals
- 0 ... 20 mA, 3-wire
- 0 ... 10 V, 3-wire

For pressure gauges with nominal sizes 100 and 160 mm, the electrical output signals can also be combined with switch contacts.

PGT21

Bourdon tube, stainless steel case



Nominal size:	50, 63 mm
Scale range:	0 ... 1.6 to 0 ... 400 bar
Accuracy class:	1.6/2.5
Ingress protection:	IP65, optional IP67
Data sheet:	PV 11.03

PGT23.063

Bourdon tube, stainless steel version



Nominal size:	63 mm
Scale range:	0 ... 1 to 0 ... 1,000 bar
Accuracy class:	1.6
Ingress protection:	IP54, filled IP65
Data sheet:	PV 12.03

PGT23.100, PGT23.160

Bourdon tube, stainless steel version



Nominal size:	100, 160 mm
Scale range:	0 ... 0.6 to 0 ... 1,600 bar
Accuracy class:	1.0
Ingress protection:	IP54, filled IP65
Data sheet:	PV 12.04

PGT43

Diaphragm, stainless steel version



Nominal size:	100, 160 mm
Scale range:	0 ... 16 mbar to 0 ... 25 bar
Accuracy class:	1.6
Ingress protection:	IP54, filled IP65
Data sheet:	PV 14.03

PGT43HP

Diaphragm, stainless steel version, high overpressure safety



Nominal size:	100, 160 mm
Scale range:	0 ... 16 mbar to 0 ... 40 bar
Accuracy class:	1.6
Ingress protection:	IP54, filled IP65
Data sheet:	PV 14.07

DPGT43

Differential pressure, stainless steel version



Nominal size:	100, 160 mm
Scale range:	0 ... 16 mbar to 0 ... 25 bar
Accuracy class:	1.6
Ingress protection:	IP54, filled IP65
Data sheet:	PV 17.05

intelliGAUGE®

DPGT43HP

Differential pressure, stainless steel version, high overpressure safety



Nominal size: 100, 160 mm
 Scale range: 0 ... 60 mbar to 0 ... 40 bar
 Accuracy class: 1.6
 Ingress protection: IP54, filled IP65
 Data sheet: PV 17.13

PGT63HP

Capsule, stainless steel version



Nominal size: 100, 160 mm
 Scale range: 2.5 ... 100 mbar
 Accuracy class: 1.6
 Ingress protection: IP54
 Data sheet: PV 16.06

DPGT40

DELTA-trans with integrated differential pressure and working pressure indication



Nominal size: 100 mm
 Scale range: 0 ... 0.16 to 0 ... 10 bar
 Accuracy class: 2.5 (optional 1.6)
 Ingress protection: IP65
 Data sheet: PV 17.19

APGT43

Absolute pressure, stainless steel version



Nominal size: 100, 160 mm
 Scale range: 0 ... 25 mbar to 0 ... 25 bar abs.
 Accuracy class: 2.5
 Ingress protection: IP54, filled IP65
 Data sheet: PV 15.02

732.15

Cryo gauge, stainless steel version



Nominal size: 100, 160 mm
 Scale range: 0 ... 40 to 0 ... 4,000 mbar
 Accuracy class: 1.0 ... 2.5
 Ingress protection: IP65
 Data sheet: PM 07.29

712.15

Cryo gauge, Cu-alloy



Nominal size: 100, 160 mm
 Scale range: 0 ... 40 to 0 ... 4,000 mbar
 Accuracy class: 1.0 ... 2.5
 Ingress protection: IP65
 Data sheet: PM 07.29

Pressure gauges with switch contacts

Control systems are gaining more and more importance in industrial applications. Consequently, mere pressure indication on the gauge itself is no longer sufficient, rather the measured value must be transferred to the control system via an electrical signal, e.g. by closing or opening of a circuit. WIKA is focusing on its mechatronic product line in order to satisfy this trend.

The switchGAUGEs are based on a high-quality mechanical WIKA pressure gauge.

Depending on the model the following contacts are built-in:

- Magnetic snap-action contact, e.g. model 821
- Inductive contact model 831
- Electronic contact model 830 E
- Reed contact model 851
- Micro switch model 850
- Transistor output NPN or PNP

All instruments with inductive contacts are certified in accordance with ATEX Ex II 2 GD c TX.

PGS11

Bourdon tube, standard version, stainless steel case



Nominal size:	40, 50, 63 mm
Scale range:	0 ... 2.5 to 0 ... 400 bar
Accuracy class:	1.6 or 2.5
Ingress protection:	IP41
Special feature:	NS 40: version with VdS or LPCB approval possible
Data sheet:	PV 21.01

PGS21

Bourdon tube, stainless steel case, fixed contacts



Nominal size:	40, 50, 63 mm
Scale range:	0 ... 2.5 to 0 ... 400 bar
Accuracy class:	1.6 or 2.5
Ingress protection:	IP65
Special feature:	NS 50: version with VdS or LPCB approval possible
Data sheet:	PV 21.02

PGS25

Bourdon tube, stainless steel case



Nominal size:	50, 63 mm
Scale range:	0 ... 1.6 to 0 ... 400 bar
Accuracy class:	2.5
Ingress protection:	IP65
Data sheet:	PV 21.04

PGS21.100, PGS21.160

Bourdon tube, industrial series



Nominal size:	100, 160 mm
Scale range:	0 ... 0.6 to 0 ... 600 bar
Accuracy class:	1.0
Ingress protection:	IP54
Data sheet:	PV 22.01

switchGAUGE

PGS23.100, PGS23.160

Bourdon tube,
stainless steel version



Ex EAC S

Nominal size: 100, 160 mm
Scale range: 0 ... 0.6 to 0 ... 1,600 bar
Accuracy class: 1.0
Ingress protection: IP54
Data sheet: PV 22.02

PGS23.063

Bourdon tube, stainless steel,
safety version



S

Nominal size: 63 mm
Scale range: 0 ... 4 to 0 ... 400 bar
Accuracy class: 1.6
Ingress protection: IP54
Data sheet: PV 22.03

PGS43.100, PGS43.160

Diaphragm, stainless steel version



Ex EAC

Nominal size: 100, 160 mm
Scale range: 0 ... 25 mbar to 0 ... 25 bar
Accuracy class: 1.6
Ingress protection: IP54
Data sheet: PV 24.03

432.36, 432.56 with 8xx

Diaphragm, stainless steel ver-
sion, high overpressure safety



Ex EAC

Nominal size: 100, 160 mm
Scale range: 0 ... 25 mbar to 0 ... 40 bar
Accuracy class: 1.6
Ingress protection: IP54
Data sheet: PV 24.07

532.53 with 8xx

Absolute pressure,
stainless steel version



Ex EAC

Nominal size: 100, 160 mm
Scale range: 0 ... 25 mbar to 0 ... 25 bar abs.
Accuracy class: 1.6
Ingress protection: IP54
Data sheet: PV 25.02

632.51 with 8xx

Capsule,
stainless steel version



Ex EAC

Nominal size: 100, 160 mm
Scale range: 0 ... 2.5 to 0 ... 100 mbar
Accuracy class: 1.6
Ingress protection: IP54
Data sheet: PV 26.06

Differential pressure gauges with switch contacts

DPGS43

Stainless steel version



Nominal size:	100, 160 mm
Scale range:	0 ... 16 mbar to 0 ... 25 bar
Accuracy class:	1.6
Ingress protection:	IP54, filled IP65
Data sheet:	PV 27.05

DPGS43HP

Stainless steel version,
high overpressure safety



Nominal size:	100, 160 mm
Scale range:	0 ... 60 mbar to 0 ... 40 bar
Accuracy class:	1.6
Ingress protection:	IP54, filled IP65
Data sheet:	PV 27.13

DPGS40

DELTA-comb, with integrated
working pressure indication and
micro switch



Nominal size:	100 mm
Scale range:	0 ... 0.25 to 0 ... 10 bar
Accuracy class:	2.5 (optional 1.6)
Ingress protection:	IP65
Data sheet:	PV 27.20

DPS40

DELTA-switch,
differential pressure switch



Nominal size:	100 mm
Scale range:	0 ... 0.25 to 0 ... 10 bar
Switch point reproducibility:	1.6 %
Ingress protection:	IP65
Data sheet:	PV 27.21

DPGS40TA

DELTA-comb, with integrated
working pressure indication and
micro switch



Nominal size:	100 mm
Scale range:	0 ... 0.25 to 0 ... 10 bar
Accuracy class:	2.5 (optional 1.6)
Ingress protection:	IP65
Data sheet:	PV 27.22

Accessories and types of contacts

821

Magnetic snap-action contact



- No control unit and no power supply required
- Direct switching up to 250 V, 1 A
- Up to 4 switch contacts per measuring instrument

831

Inductive contact



- Long service life due to non-contact sensor
- Additional model 904.xx control unit required
- With corresponding control unit suitable for use in zone 1/21 (2 GD) hazardous areas
- Insensitive to corrosion
- Up to 3 switch contacts per measuring instrument

830 E

Electronic contact



- For direct triggering of a programmable logic controller (PLC)
- Long service life due to non-contact sensor
- Insensitive to corrosion
- Up to 3 switch contacts per measuring instrument

851

Reed contact



- No control unit and no power supply required
- Direct switching up to 250 V, 1 A
- Also suitable for direct triggering of a programmable logic controller (PLC)
- Free from wear as without contact
- Up to two change-over contacts per measuring instrument

905

Contact protection relay for contacts model 821



- Application: For optimal contact protection and highest switching reliability
- Data sheet: AC 08.01

904

Control unit for inductive contacts model 831



- Application: For operating gauges with inductive switch contacts
- Data sheet: AC 08.01

Mechanical pressure switches

Mechanical pressure switches open or close a circuit, depending on whether the pressure is rising or dropping. Due to the use of high-quality micro switches, the mechanical pressure switches are notable for their high precision and long-term stability. Furthermore the direct switching of electrical loads up to AC 250 V / 20 A is enabled, while simultaneously ensuring a high switch point reproducibility.

The mechanical gauge pressure switches MW, MA, BWX, BA, PCS and PCA come with a SIL certificate and are thus particularly suited for safety-critical applications. In addition, with their 'intrinsically safe' and 'flameproof enclosure' types of protection the pressure switches are ideally suited for permanent use in hazardous environments. All mechanical pressure switches for the process industry are available with EAC certificate and equipment pass.

for gauge pressure

MW, MA

Diaphragm element



Setting range: 0 ... 16 mbar to 30 ... 600 bar

Ignition protection

type: Ex ia or Ex d

Switch: 1 or 2 x SPDT or 1 x DPDT

Switching power: AC 250 V / 20 A

DC 24 V / 2 A

Data sheet: PV 31.10, PV 31.11 (Ex)

BWX, BA

Bourdon tube



Setting range: 0 ... 2.5 to 0 ... 1,000 bar

Ignition protection

type: Ex ia or Ex d

Switch: 1 or 2 x SPDT or 1 x DPDT

Switching power: AC 250 V / 20 A

DC 24 V / 2 A

Data sheet: PV 32.20, PV 32.22 (Ex)

PCS, PCA

Compact pressure switch



Setting range: -0.2 ... 1.2 to 100 ... 600 bar

Ignition protection

type: Ex ia or Ex d

Switch: 1 x SPDT or DPDT

Switching power: AC 250 V / 15 A

DC 24 V / 2 A

Data sheet: PV 33.30, PV 33.31 (Ex)

PXS, PXA

Mini pressure switch



Setting range: 1 ... 2.5 to 50 ... 400 bar

Ignition protection

type: Ex ia or Ex d

Switch: 1 x SPDT

Switching power: AC 250 V / 5 A

DC 24 V / 5 A

Data sheet: PV 34.36, PV 34.38 (Ex)

for differential pressure and absolute pressure

DW, DA

Differential pressure switch



Setting range: 0 ... 16 mbar to 0 ... 40 bar
static pressure to 160 bar

Ignition protection

type: Ex ia or Ex d

Switch: 1 or 2 x SPDT or 1 x DPDT

Switching power: AC 250 V / 20 A

DC 24 V / 2 A

Data sheet: PV 35.42, PV 35.43

DC, DE

Differential pressure switch,
compact version



Setting range: 0 ... 160 mbar to 0 ... 40 bar
static pressure to 250 bar

Ignition protection

type: Ex ia or Ex d

Switch: 1 x SPDT or DPDT

Switching power: AC 250 V / 15 A

DC 24 V / 2 A

Data sheet: PV 35.40, PV 35.41 (Ex)

APW, APA

Absolute pressure switch



Setting range: 0 ... 25 mbar to 0 ... 1.5 bar abs.

Proof pressure: 11 bar abs.

Ignition protection

type: Ex ia or Ex d

Switch: 1 or 2 x SPDT or 1 x DPDT

Data sheet: PV 35.49

PV 35.48

Mechanical pressure switches

With their compact OEM pressure switches, WIKA offers a full range of mechanical pressure switches for simple and demanding industrial applications. From the low-cost variant with its miniature design to block design pressure switches with convenient setting via an adjustment knob - everything from one source. On request, customer-specific variants and developments are possible.

PSM01

Standard version



Setting range:	-0.85 ... -0.15 bar 0.2 ... 2 bar to 40 ... 400 bar
Material:	Steel galvanised, stainless steel
Switching power:	1A/4A, AC 48 V 0.5A/2A, DC 24 V
Switching cycles:	1 x 10 ⁶
Data sheet:	PV 34.81

PSM02

With settable hysteresis



Setting range:	-0.85 ... -0.15 bar 0.2 ... 2 bar to 40 ... 400 bar
Material:	Steel galvanised, stainless steel
Switching power:	1A/4A, AC 250V 0.5A/2A, DC 24 V
Switching cycles:	2 x 10 ⁶
Data sheet:	PV 34.82

PSM03

In block design



Setting range:	0.2 ... 2 to 40 ... 400 bar
Material:	Zinc diecast, Aluminium
Switching power:	1A/4A, AC 250 V 0.5A/2A, DC 24 V
Switching cycles:	5 x 10 ⁶
Data sheet:	PV 34.83

The right solution

Your design

We deliver our measuring instruments just as you require. Cases and dials, scales, cables, sealings and much more can be manufactured with your logo or to the design you wish. We can also provide you with complete technical documentation in your design, with your model designation and corresponding packaging.



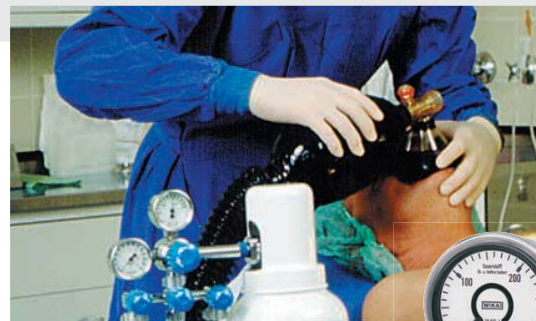
Indicating – transmitting – switching

In some cases, not only analogue output signals, such as 4 ... 20 mA, are necessary for a PLC, but also additional signals which can switch a load directly. For these applications, IntelliGAUGEs (pressure gauges with an integrated transmitter) are available, into which additional switch contacts for the direct switching of higher loads can also be integrated.

Special applications

Example medical engineering

Pressure monitoring in medical engineering covers a multitude of applications; ranging from treating patients with anaesthetic gases or special gas mixtures, to gaseous disinfectants for sterility and hygiene, to the provision of specific pressure conditions for surgery. Here, special instrument designs are used, which are suitable for operation with oxygen.



Innovative partner for OEM applications

With our high-tech production lines and technical experts, WIKA is perfectly equipped for the requirements of the OEM market. Our standard product range includes products that can be used in numerous ways. Individually tailored advice and proposals, to match solutions to your needs, supplement our extensive offering of products and services.

Transmitters

Hall sensor

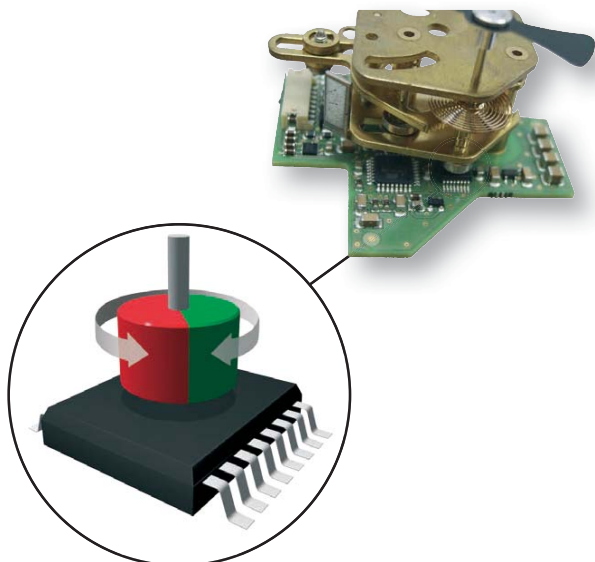
Bourdon tube pressure elements are widely used as measuring elements within pressure measurement technology due to their robustness and simple handling. Under the influence of pressure, these pressure elements deform within their elastic limits.

This motion is converted, via a mechanical movement (toothed gear), into a rotational motion. A magnet on the pointer shaft rotates proportionally to the instrument pointer as a direct linear function of the process pressure. The electronics positioned opposite the magnet register the rotary motion of the magnet.

A magnetic-field-dependent sensor picks up this change on the electronic side, contact-free, wear-free and without influence on the pressure element.

The sensor signal, proportional to the deflection, is converted to an electrical output signal via an amplifier. The span of the electrical output signal corresponds to the measuring span on the dial. With the appropriate transistor switches, switching outputs are also available.

A pressure gauge with an electrical output signal from the intelliGAUGE series combines all the advantages of a local display, without the need for a power supply, with the requirements with the requirements of an electrical signal transfer for a modern measured value registration.



Transmitter

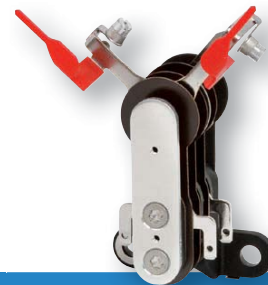
Switch contacts

Built into mechanical pressure and temperature gauges - they make or break an electrical control circuit dependent upon the position of the instrument's pointer. They can be used for various monitoring functions, such as, for example, to start, stop or switch processes or even just as a "simple" alarm when a measured value either falls below, or exceeds a preset value.

Magnetic snap-action contacts, inductive contacts and electronic contacts, mounted behind the instrument dial, can be set to any point across the entire scale range via the set pointer. The instrument pointer actual value pointer) moves freely across the entire scale range, independent of the setting. The contacts can be adjusted using a removable adjustment key in the window or via a spindle in the front of the instrument. For transistor outputs the switch values can be programmed to meet your requirements.

Magnetic snap-action contact model 821

This universal contact can be used in a whole range of operating conditions. The set pointer has an adjustable permanent magnet attached, giving a snap-action characteristic to the contacts. This strengthens the contact force. This snap-action behaviour provides further protection of the contacts against harmful arcing effects. The signal is made either before or after mating, dependent upon the movement of the instrument pointer.



Magnetic snap-action contact model 821

Proper operation will ensure many years of problem-free operation for the magnetic snap-action contacts. For low switching voltages, to maintain reliability, the current to be switched should not be less than 20 mA. For extremely high as well as for lower loads or switching power ratings, and also for liquid-filled gauges, we recommend the use of contact protection relays.

Reed contact model 851

This universal contact can be used in all operating conditions. It can switch loads up to 230 V/1 A directly, as well as giving a secure contact with extremely low currents. It can also be used as a direct input to PLCs. Its design and its very low mass make it particularly vibration resistant.

The contact is switched by a magnet fixed to the instrument pointer. The switching is therefore made without contact and is thus free from wear. The setting and the visualisation of the switch points is achieved via the red marks situated on the dial. The reed switch is always a change-over contact and can be used as either a normally-closed, a normally-open or a change-over contact. A maximum of 2 change-over contacts are possible per instrument.



Reed contact model 851

Electronic contact model 830 E

This contact can switch small loads, such as those usual in programmable logic controllers (PLC), directly. The “inductive contact with integrated amplifier” is factory-fitted to the measuring instrument. The usual advantages of inductive contacts, such as fail-safe contact operation, no wear due to proximity contact operation as well as virtually no effect on the measuring system, also apply here. No additional control unit is required.

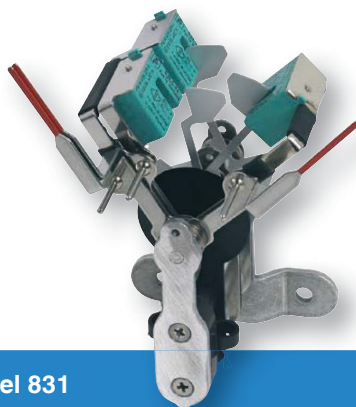


Electronic contact model 830 E

Inductive contact model 831

In hazardous areas, only measuring instruments with inductive contacts for zone 1 and 2 hazardous areas may be used. Outside of Ex areas, these contacts are primarily used where particularly safe switching at higher switching rates is important. Typical application areas are those in chemical, petrochemical and nuclear plants.

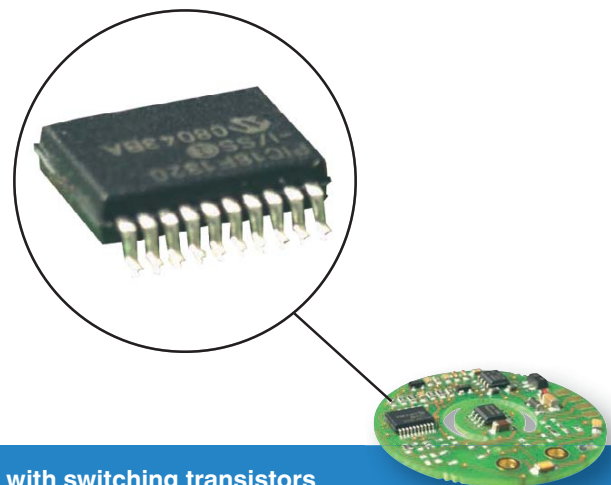
The inductive contact works in a non-contact way. Essentially it consists of the control head (initiator), attached to the set pointer, with its fully-potted electronics and the mechanical assembly with the moving flag. The flag is moved by the instrument pointer. The control head is supplied with a DC voltage. When the flag enters the slot in the control head this then increases its internal resistance. The subsequent change in the current acts as the input signal for switching amplifiers of the control unit. The non-contact “contact system” produces no wear within the electrical system, and so leads to a longer service life.



Inductive contact model 831

Transistor output NPN or PNP

Transistors are electronic semiconductor elements, which are used to switch on, switch off or amplify electrical signals, without any moving, mechanical components. In principle, it is an electrical resistance, controlled through either a current or a voltage. Either an NPN or a PNP bipolar transistor is used. In both designs a basic current I_B controls a stronger current I_C in load circuit (collector circuit). The transistors switch a maximum I_C of 100 mA without any wear. They switch without any contact so that oxidation or mechanical wear cannot occur. Thus reliable switching is ensured in the long term.



IC with switching transistors

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