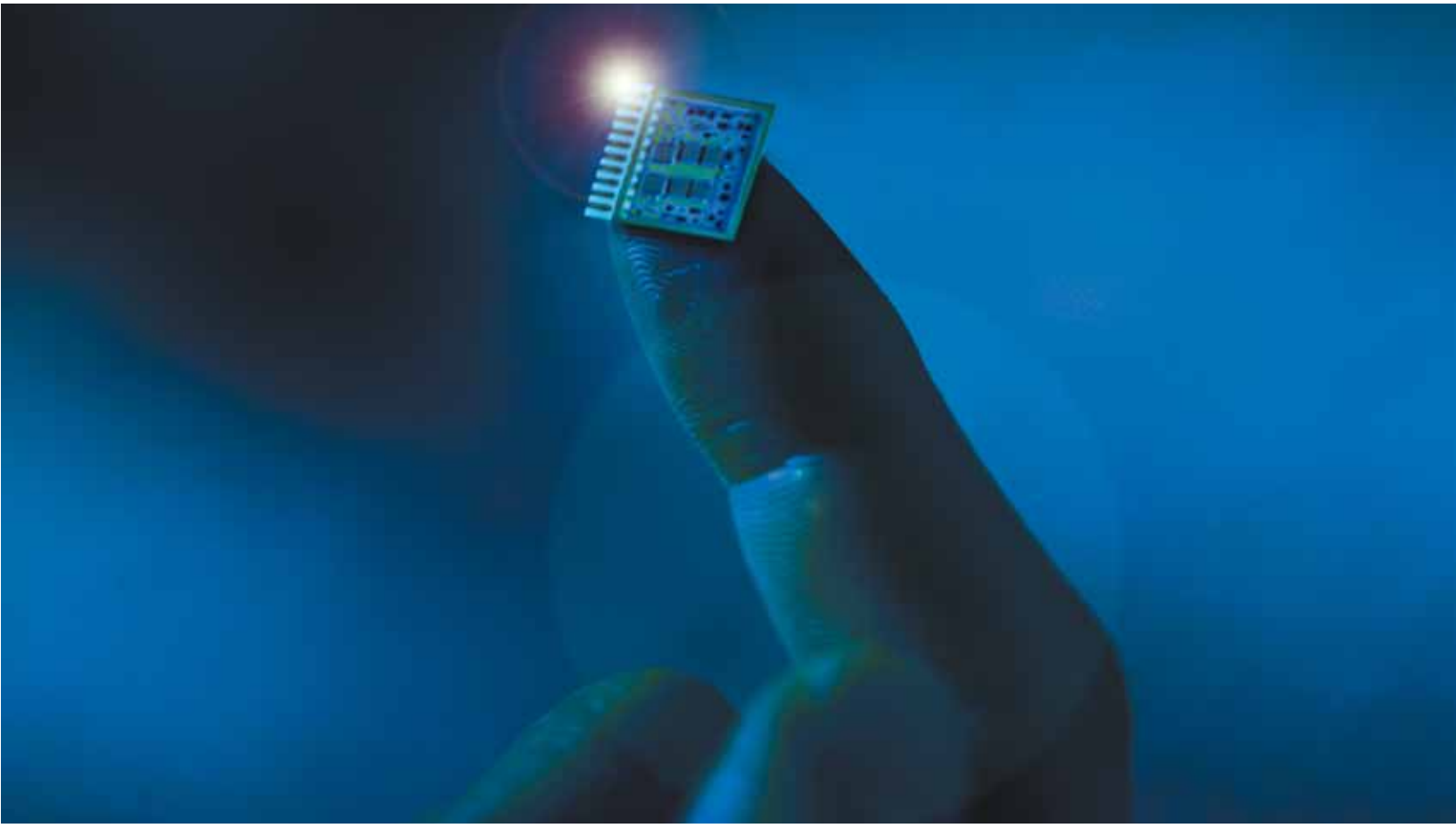
Pressure measuring instruments for

High Purity and Ultra High Purity Applications



WIKA®

Part of your business

WIKA – Your Instrumentation Specialist for High Purity & Ultra High Purity (UHP) Applications

WIKA offers a wide variety of High Purity and Ultra High Purity pressure gauges engineered to meet the stringent demands of the semiconductor, microelectronics and solar markets. Our products provide solutions for both gas and chemical delivery applications.

Used in gas delivery applications, WIKA's Indicating Pressure Switch Gauges (IPS) are available as either magnetic reed or inductive switch products.

WIKA's Ultra High Purity transducers are engineered to comply with the highest standards of the electronics industry. The WIKA advantage is our thin film sensor technology. Elgiloy® sensors ensure our transducers provide the most reliable solutions for both gas and chemical delivery systems.

WIKA's Gas Cylinder Scales (GCS) are engineered and designed for liquid delivery sources. The Gas Cylinder Scales have explosion (ATEX) and high ingress (NEMA 4/IP 65) protection. These unique features allow the scales to be used in both indoor and outdoor hazardous applications.

WIKA's indicators and displays provide local readings for pressure transducers, temperature transmitters and gas cylinder scales.

Industry Driven Products

WIKA's High Purity and Ultra High Purity instruments are designed to the standards and recommendations relevant to the market and its governing agencies (ASME, SEMATECH and SEMI):

- Recommendations for instrument sizes
- Material and surface specifications
- Manufacturing in accordance with High Purity and Ultra High Purity Guidelines
- Cleaning and rinsing of wetted parts
- Handling and double packaging of the finished instrument

Innovative Custom Designs

Our innovative development engineering staff provides customized designs to meet customer specific applications and requirements.

Superior Quality

Our comprehensive quality control and engineering efforts ensure that every WIKA product is built to last.

Innovative Sensors
for the Toughest Requirements

High Accuracy Sensors

Specially developed Thin Film Elgiloy® Sensors are at the heart of every WIKA Ultra High Purity Transducer. Elgiloy's® high corrosion resistance and excellent hysteresis characteristics have established it as the industry's diagram material of choice.

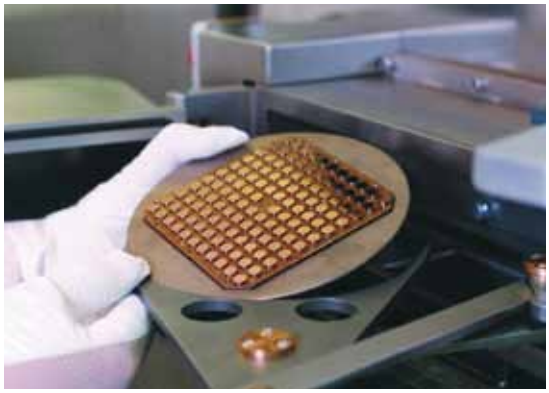
UNS R30003 Material Thin Film Sensors

Excellent Long-term Stability

Our sensors are manufactured using highly sophisticated PVD and CVD processes. The combination of these processes ensures a high-integrity bond between the diaphragm and the integrated circuit of the sensor. Additionally, the sensor contains integrated temperature compensation resistors to further improve the sensor's long-term stability.

Optimal Protection Against Torsional Stresses

WIKA Thin Film Sensors are manufactured to sustain torsional stresses often incurred during installation of the transducer. Transducers without torsional protection risk zero point stability and reduced accuracies.



WU and NWU Series Transducers

WIKA's Ultra High Purity transducers are engineered to comply with the highest standards of the electronics industry. The WIKA advantage is our thin film sensor technology. Elgiloy® sensors ensure our transducers provide the most reliable solutions for both gas and chemical delivery systems.

Active Temperature Compensation

Fast changes in temperature occur when high quantities of gas are withdrawn, purged, or cycled from equipment tools or gas cabinets. These fluctuations may vary temperatures up to 70°C and often lead to icing conditions of the components at the tool or gas cabinet. It is imporatant to note that a temperature change of 50°C can cause accuracy errors in the transducer up to 10% of the full scale value.

To account for these temperature fluctuations, every WIKA WU series transducer includes an advanced sensor technology specifically designed to minimize the effects of changing temperatures and pressures. By comparison, WIKA WU Series transducers maintain 1.5% full scale accuracy during the same 50°C temperature change.

WU-15

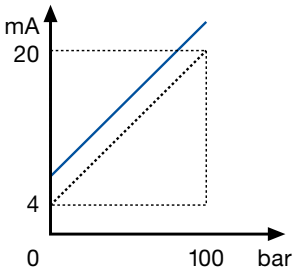
WU-10

WU-16

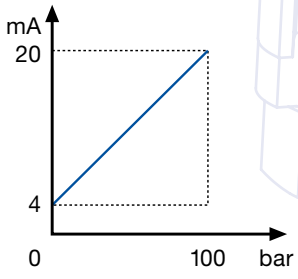
Field Replaceable Electronics

Exchangeable electronics allow for the field replacement of the transducer's onboard electronics. Instead of replacing the entire transducer, the electronics can be replaced or changed to avoid unnecessary costs and down-time.

WIKA transducers do not require complex span adjustments found in competitive products. With WIKA it's easy, just install the transducer and calibrate. A simple zero point adjustment is all it takes.



Signal after amplifier exchange



Signal after zero point adjustment

The Explosion Protection Classification

WIKA offers explosion protection for its Ultra High Purity transducers. For decades, WIKA has been a qualified supplier of explosion-protected pressure and temperature measuring instruments for a wide range of industrial applications.

Whether chemical or petrochemical, oil or gas plants, refineries or power stations, WIKA measuring instruments are used in all applications where safe and reliable measuring instruments are absolutely critical.

Model NWU-1X

According to ATEX and FM, the WIKA transducers of the NWU-1X family are classified as “Ex n”; i. e., as “non-incendive components”. Therefore under normal operating conditions these instruments are not capable of igniting a surrounding explosive atmosphere (ATEX: Zone 2, Category 3G; FM: Class I, Division 2).

Technical Details

Transducer WU-1X / NWU-1X

(Data sheets WU-1X, NWU-1X)

Pressure ranges	0 … 2 to 0 … 400 bar
Accuracy	0.5% of span (0.25% BFSL)
Operating temperatures	ambient: -20°C ... 85°C medium: -40°C ... 100°C
Material (wetted)	316 L VIM/VAR, Elgiloy®
Output signals	4 … 20 mA; 2-wire (NWU-1X) 4 ... 20 mA; 2-wire (WU-1X) 0.1 … 5.1 V; 3-wire (WU-1X) 0.1 … 10.1 V; 3-wire (WU-1X)
Surface finish	electropolished; 0.18 Ra 0.25
Ingress protection	IP 65 / IP 54
Mean TC of zero:	0.1% of span compensated / 10 K
Mean TC of range	0.2% of span / 10 K

Explosive Atmospheres:
Gases and vapors: hazard only during abnormal operating conditions.

IEC Zones:
Zone 2 is an area within which, in normal operation, a dangerous, potentially explosive atmosphere normally only exists very briefly as a mixture of air and inflammable gases, vapors or mists, or don’t exist at all.

CE Directive:
- Zone 2
- Group II
- Category 3G

US NEC 500 Canada CEC:
- Class 1, Division 2

US NEC 505:
- Class 1, Zone 2

NWU series transducers are available with a non-incendive attachable indicator.

WUR-1 and NWUR-1 Attachable Indicators

The attachable indicator provides a local display of the process pressure measured by a UHP transducer. It also provides an analog output signal (current or voltage) and switch points.

Easy to Read

- Red LED display, which is easy to read, even under unfavorable lighting conditions

Convenient Operation

- The indicator can be easily configured via external control keys

Two Switch Points

- Two independent switching outputs (NPN, open collector)
- Potential free (galvanically isolated)
- Make contact/break contact

Fully Programmable

Attachable Indicators are easily installed on new and existing pressure transducers. The ease of installment and universal programming of the display provides a simple solution to areas requiring local pressure display readings. Programmable parameters:

- Display range
- Decimal point
- Unit
- Switch points
- Switching functions

Top View

Front View

Technical Details

Attachable Indicator WUR-1

(Datasheet WUR-1)

Display	7-segment-LED, red (4-digit)
Accuracy	0.5% +/- 1 digit
Operating temperatures	ambient: -30°C ... 85°C
Material (case)	ABS
Output signals (looped through)	4 … 20 mA; 2-wire 0.1 … 5.1 V; 3-wire 0.1 … 10.1 V; 3-wire
Switching outputs	2 x NPN, open collector
Ingress protection	IP 65
Option	Ex (Model NWUR-1, Datasheet NWUR-1)

Gas Cylinder Scale:
For the Measurement of Liquid Gases

The Gas Cylinder Scale has been added to WIKA's UHP product portfolio, making WIKA a single source supplier for UHP level and pressure measurement.

WIKA's Gas Cylinder Scales (GCS) are engineered and designed for liquid delivery sources. The Gas Cylinder Scales have explosion (ATEX) and high ingress (NEMA 4/ IP 65) protection. These unique features allow the scales to be used in both indoor and outdoor hazardous applications. WIKA's indicators and displays provide local readings for pressure transducers, temperature transmitters and gas cylinder scales.

Gas Cylinder Scales with digital display

Accessories:
Digital display DI25 (Datasheet AC 80.02)
Digital display DI30 (Datasheet DI30)

Special Features

- Low profile (height approx. 32 mm)
- High EMI requirements
- Robust with long-term stability
- Corrosion resistant due to stainless steel materials
- High accuracy despite off-center loads
- High ingress protection (IP 65) (NEMA4)
- High overload protection
- Complete level measurement
- International approvals: ATEX Zone 2 at -10 ... 50°C

Technical details

Gas Cylinder Scale

(Datasheet AC 09.13)

Pressure ranges	0 … 300 lbs (0 … approx 136 kg) 0 … 100 lbs (0 … approx 45 kg) 0 … 60 lbs (0 … approx 27 kg) others on request
Output signal	4 … 20 mA
Accuracy	+/- 0.1% of span (0.05% BFSL) with -10 … +50°C
Long-term stability	+/- 0.05% / 30 days
Adjustability Zero/span	+/- 5% of span protected by screw cap
Electrical connection	2-wire flying leads with 6 m (20 ft) of cable
EMI-conformity	IEC 61000-4-3 30 V/m, IEC 61000-4-6 10 V
Overload protection	> 2.5 x full scale
Execution	square top and base plate of stainless steel
Dimensions	235 mm x 235 mm x 32 mm (9.25" x 9.25" x 1.25")

Low and Differential Pressures

Applications

DP-10 transmitters control the pressure conditions in clean rooms and air lock areas. They also provide for the detection of pollution in filter plants.

As an option, the transmitter can be equipped with a 3½ digit LCD display and two potential-free changeover contacts for signaling alarms.

These transmitters are suitable only for clean dry air, inert or non-hazardous gas applications.

Model DP-10

WIKA pressure transmitters Model DP-10 are used for measurement of low gauge pressures and vacuum, as well as differential pressures.

Technical details

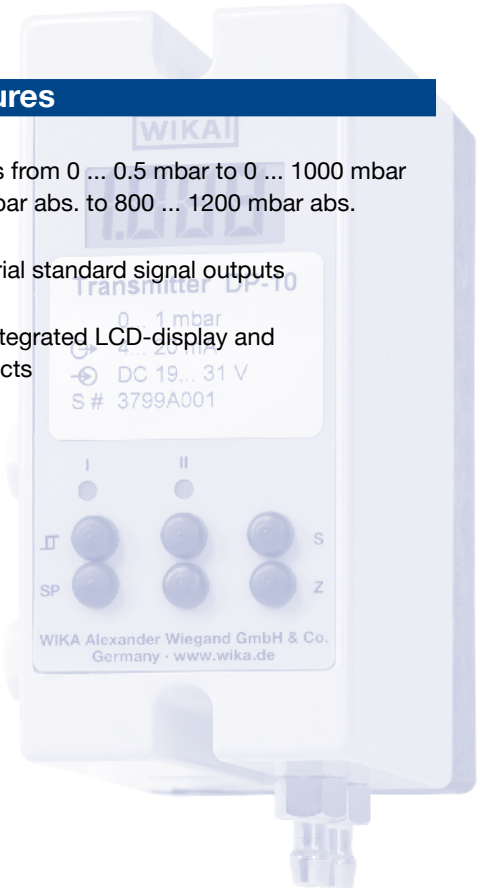
Pressure Transmitter DP-10

(Datasheet DP-10)

Pressure ranges	overpressure and differential pressure 0 … 0.5 to 0 ... 1000 mbar Absolute pressure 0 ... 500 to 800 ... 1200 mbar abs.
Accuracy	1.0% of span optional: 0.5% of span (from 0 ... 1 mbar) 0.25% of span (from 0 ... 2.5 mbar)
Output signal	0 ... 10 V, 3- or 4-wire system 0 ... 20 mA, 3- or 4-wire system 4 ... 20 mA, 2-, 3- or 4-wire system
Pressure connections	hose connections 6.6 x 11 mm for hoses with inside diameter 5 ... 6 mm
Dimensions	52 x 112 x 118.5 mm (B x H x T) without cable gland and process connections

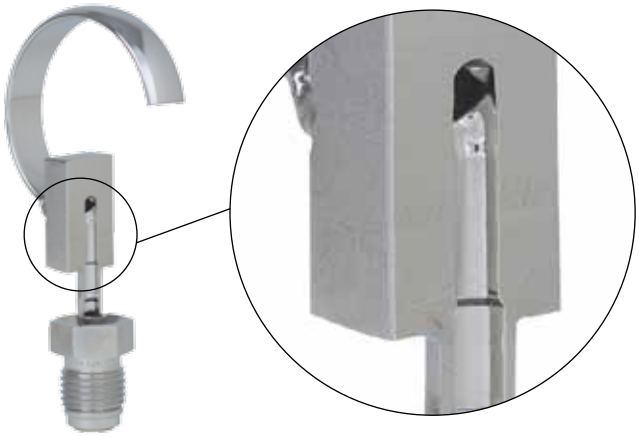
Special Features

- Pressure ranges from 0 ... 0.5 mbar to 0 ... 1000 mbar and 0 ... 500 mbar abs. to 800 ... 1200 mbar abs.
- Different industrial standard signal outputs
- Optional with integrated LCD-display and switching contacts



Pressure Gauges

WIKA offers a wide variety of High Purity and Ultra High Purity pressure gauges engineered to meet the stringent demands of the semiconductor, microelectronics and solar markets. Our products provide solutions for both gas and chemical delivery applications.



Surface Finish

Every gauge is electrochemically deburred, polished (inside and out) and undergoes a dynaflow extrude hone process to ensure the best possible surface quality of the measuring system.

Alarm Contacts

Used in gas delivery applications, WIKA's Indicating Pressure Switch Gauges (IPS) are available as either magnetic reed or inductive switch products.

Alarm contacts provide safe and reliable monitoring and control of processes.

Comprehensive Range of Products

- Various nominal sizes
- Pressure ranges from 1 bar to 400 bar
- Various process connections
- Available with various alarm contact versions
- Customized special designs

Applications

- Cylinder contents indicators
- Bulk-gas supply systems
- Valve controls
- Isolation chambers
- Process gas controls
- Gas sticks

Pressure Gauges for High Purity and Ultra High Purity Applications

	HP		UHP		UHP		UHP Flow-through gauges		
Model	130.15		230.15		230.25		432.25		
Nominal size	1½” (40 mm)	2” (53 mm)	1½” (40 mm)	2” (53 mm)	1½” (40 mm)	2” (53 mm)	1 1/8“	1 1/2“	2“
Window type / material	snap-in / polycarbonate	twist-lock / polycarbonate	snap-in / polycarbonate	twist-lock/ polycarbonate	snap-in/ polycarbonate	twist-lock/ polycarbonate	snap-in / polycarbonate		twist-lock/ polycarbonate
Scale range	-1 … 0 bar 0 … 1000 bar		-30 inHG ... 0 psi 0 ... 14,500 psi		-1 … 0 bar 0 … 400 bar	-30 inHG ... 0 psi 0 ... 6000 psi	-1 ... 4 bar -1 ... 9 bar	-30 inHG ... 60 psi -30 inHG ... 130 psi	
Accuracy									
Class according to ASME B40.1	Grade B	Grade A	Grade B	Grade A	Grade B	Grade A	Grade C		Grade B
% of span	± 3/2/3	± 2/1/2	± 3/2/3	± 2/1/2	± 3/2/3	± 2/1/2	± 4/3/4		± 3/2/3
									higher accuracy on request
Design									
Gauge type	Bourdon tube gauge				Bourdon tube gauge		Diaphragm gauge		
Tube or diaphragm material	316 L stainless steel				316 L stainless steel		Inconel		
Measurement system design	standard design		gap free design		gap free design		no dead space - excellent to purge		
Socket or lower part material	316 L stainless steel				316 L VIM/ VAR		316 L stainless steel		
Pointer	black, aluminium				black, aluminium				
Dial	white, aluminium				white, aluminium				
Case	304 stainless steel electropolished				304 stainless steel electropolished				
Window	polycarbonate				polycarbonate				
Wetted surface treatment									
Bourdon tube	O2 cleaned acc. ASME Level IV		internal surface passivated (ASTM A967)		internal surface passivated (ASTM A967)		---		
Measuring system			Dynaflow extrude hone passivated after welding Ra < 0.5 µm (Ra < 20 µinch)		Dynaflow extrude hone, passivated and electropolished after welding. Ra < 0.25 µm (Ra < 10 µinch)		all wetted surface of lower part electropolished. Ra < 0.25 µm (Ra < 10 µinch)		
Process connection									
Standard	1/4” NPT male		1/4” face seal		Swagelok® 1/4” VCR®		MSM 1 1/8”	1/4“ face seal fixed male only	1/4“ or 1/2“ face seal
	wetted surface finish: Ra < 1.0 µm (Ra < 40 µinch) - internal		wetted surface electropolished Ra < 0.25 µm (Ra < 10 µinch)		wetted surface electropolished Ra < 0.25 µm (Ra < 10 µinch)				
Option	1/4” face seal		1/4” NPT male		MSM 316L VIM/VAR		---		weld stub
	weld stub		weld stub		weld stub				
Cleaning treatment									
Production environment	manufactured on standard work floor		manufactured in cleanroom		manufactured in cleanroom				
Calibration medium	pure Nitrogen				pure Nitrogen				
Cleanliness	ASME B40.1, level IV (for Oxygen service)		special cleaning according to SEMI spec		special cleaning according to SEMI specification				
Packing	single nylon bag, Nitrogen purged		cleaned, nitrogen purged and double bagged in cleanroom		cleaned, nitrogen purged and double bagged in cleanroom				
Alarm contacts									
Inductive switch	---	830.1E(NPN) 830.1E(PNP)	---	830.1E(NPN) 830.1E(PNP)	---	830.1E(NPN) 830.1E(PNP)	---	---	---
Magnetic reed switch	---	851.3	---	851.3	---	851.3	---	---	---

WIKA's Patented Double PFA-Diaphragm

Our pressure measuring instruments of the Hydra-Line product family have been developed in cooperation with well-known customers in the semiconductor industry. The complete product concept has been adapted to the special requirements of the process equipment and UHP chemicals distribution system sectors.

Double Safety

The patented Hydra double diaphragm system enables a safe and reliable separation of the pressure sensor from the process media.

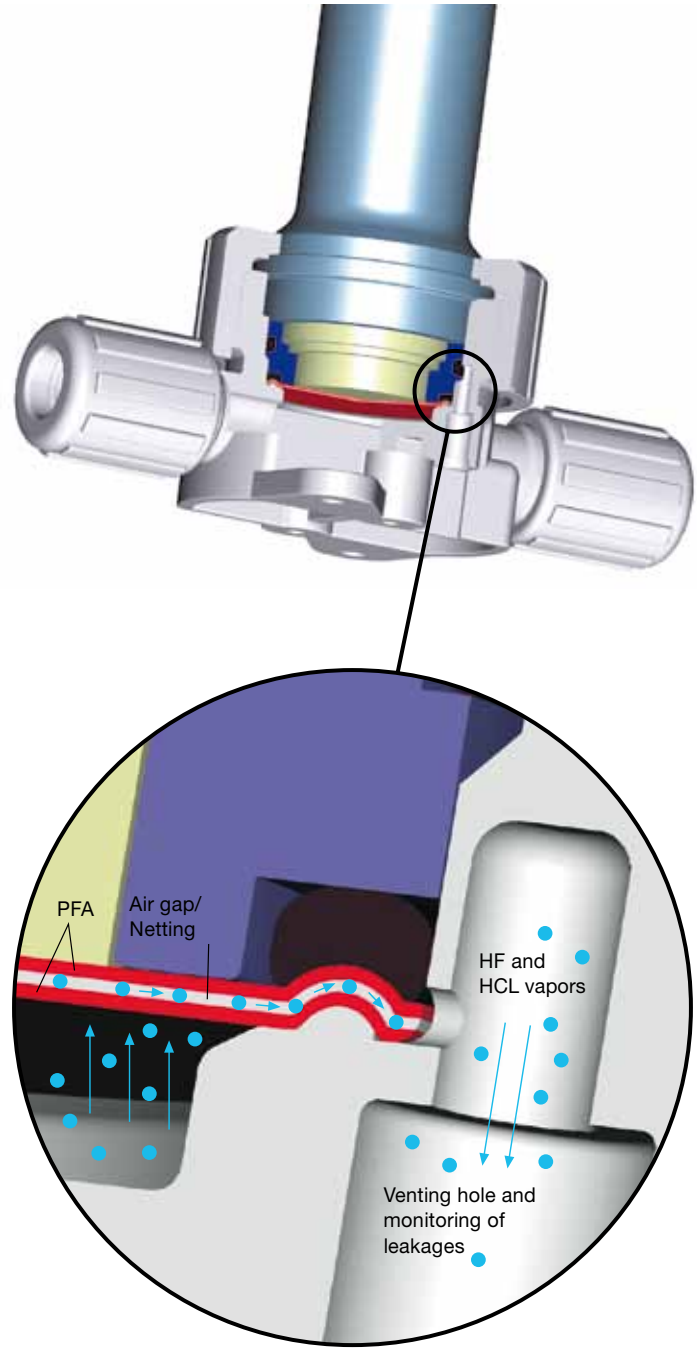
The hydra double diaphragm design provides greater accuracy and reliability than traditional single diaphragm products. This patented technology not only provides an additional barrier of defense for the sensor, it also improves the sensor's accuracy by diffusing unnecessary process vapors such as HF and HCl.

Excellent Reliability

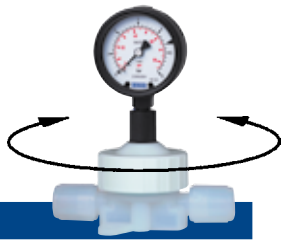
- Proven high end sensors from the process instrumentation of industrial chemistry
- High ingress protection IP 65 or IP 67
- Corrosion-resistant encapsulated components

Highest Purity

- All wetted parts are made of PFA or PTFE UHP grade
- All wetted parts are produced in a class 100 clean room
- Installation, adjustment, cleaning and packaging is performed in a class 100 clean room

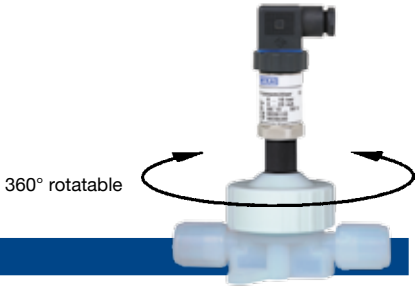


The Hydra-Line



Hydra-Gauge

Process connections	3/8” to 1 1/4”-flare, 1/4” NPT 1/2” NPT, PFA, PTFE UHP-grade
Pressure ranges	0 ... 2.5 to 0 ... 6 bar
Accuracy class	1.6
Measuring instrument	pressure gauge with Bourdon tube, NS 63, Teflon®-coated
Option	alarm contact Model 830 E
Ingress protection	IP 65



Hydra-Sensor

Process connections	3/8” to 1 1/4”-flare, 1/4” NPT 1/2” NPT, PFA, PTFE UHP-grade
Pressure ranges	0 ... 2.5 to 0 ... 6 bar
Accuracy	0.5% of span
Output signal	4 ... 20 mA, 2-wire
Electrical connection	L-plug according to DIN 175301-803, Form A
Ingress protection	IP 65

Hydra-Dry

Process connections	3/8” to 1 1/4”-flare, 1/4” NPT 1/2” NPT, PFA, PTFE UHP-grade
Pressure ranges	0 ... 1 to 0 ... 6 bar
Accuracy	0.5% of span
Output signal	4 … 20 mA; 2-wire
Sensors	dry ceramic measuring cell, no pressure transmitting fluid
Case	PVDF, cable FEP-coated
Ingress protection	IP 67, for extremely corrosive environments

Hydra-Indicator

Display	7-segment-LED, red (4-digit)
Accuracy	0.5% +/- 1 digit
Input/output signal	loop-powered indicator for 4 … 20 mA-signal
Voltage supply	none, supply from loop current
Case	PFA, PP, cable FEP-coated
Ingress protection	IP 67, for extremely corrosive environments
Mounting	panel mounting; local display integrated on Hydra-Dry

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