

WIKA's Featured Products

for Pressure, Temperature, Level
and Flow Measurement



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Solutions and Services for Pressure, Temperature, Level and Flow Measurement

At WIKA, we go to great lengths to ensure the quality of our measurement technology. From standard products to engineered solutions, quality control starts with our production systems, which are based on Kaizen, Lean Manufacturing and Six Sigma principles.

This focus on quality is consistent throughout the WIKA group of companies around the globe, which offer an extensive portfolio of pressure, temperature, level and flow measurement solutions and services.

Wherever you are in the world, you can rely on WIKA quality.

WIKA: Your Reliable Partner for Measurement Technology

WIKA's LeanSigma® Methodology

WIKA understands that customers in today's business environment demand high-quality products and services at competitive prices, customized to individual requirements and with quick deliveries. To better serve our customers' needs, WIKA has embraced a new manufacturing philosophy named LeanSigma®.

Lean manufacturing and business processes utilize a systematic approach to identifying waste through continuous improvement. Lean manufacturing retains only those activities that transform materials and information into the products and services that customers need.

The benefits are:

- Over 50,000 different product configurations with lead times of only a few days
- An industry-leading 1,400 stock items that are readily available to our customers for same day shipping
- Elimination of large inventories to overcome out-of-stock situations

The result is WIKA having the industry's shortest lead times. You will get exactly what you want when you need it!

WIKA's Customized Dial Printing Capabilities

WIKA's customized printing capabilities are among the best in the industry. WIKA utilizes a wide variety of printing methods to meet any unique requirement, match any PMS color and create custom logo designs for dial artwork. WIKA utilizes proprietary digital printing technology which drastically reduces lead times from days to minutes.

WIKA's NIST Traceable Calibration Lab

WIKA's in-house and traceable NIST Laboratory offers customers maximum precision and quality, certified in accordance with NIST calibration standards. If required, instrumentation products will receive a NIST Certificate of Calibration to verify that a product is within its stated tolerance of accuracy.

Mechanical and electronic pressure measuring instruments, deadweight testers as well as temperature sensors and temperature measuring instruments, resistance thermometers or dry well calibrators can all be calibrated and certified by WIKA.



Mechanical Pressure Measurement

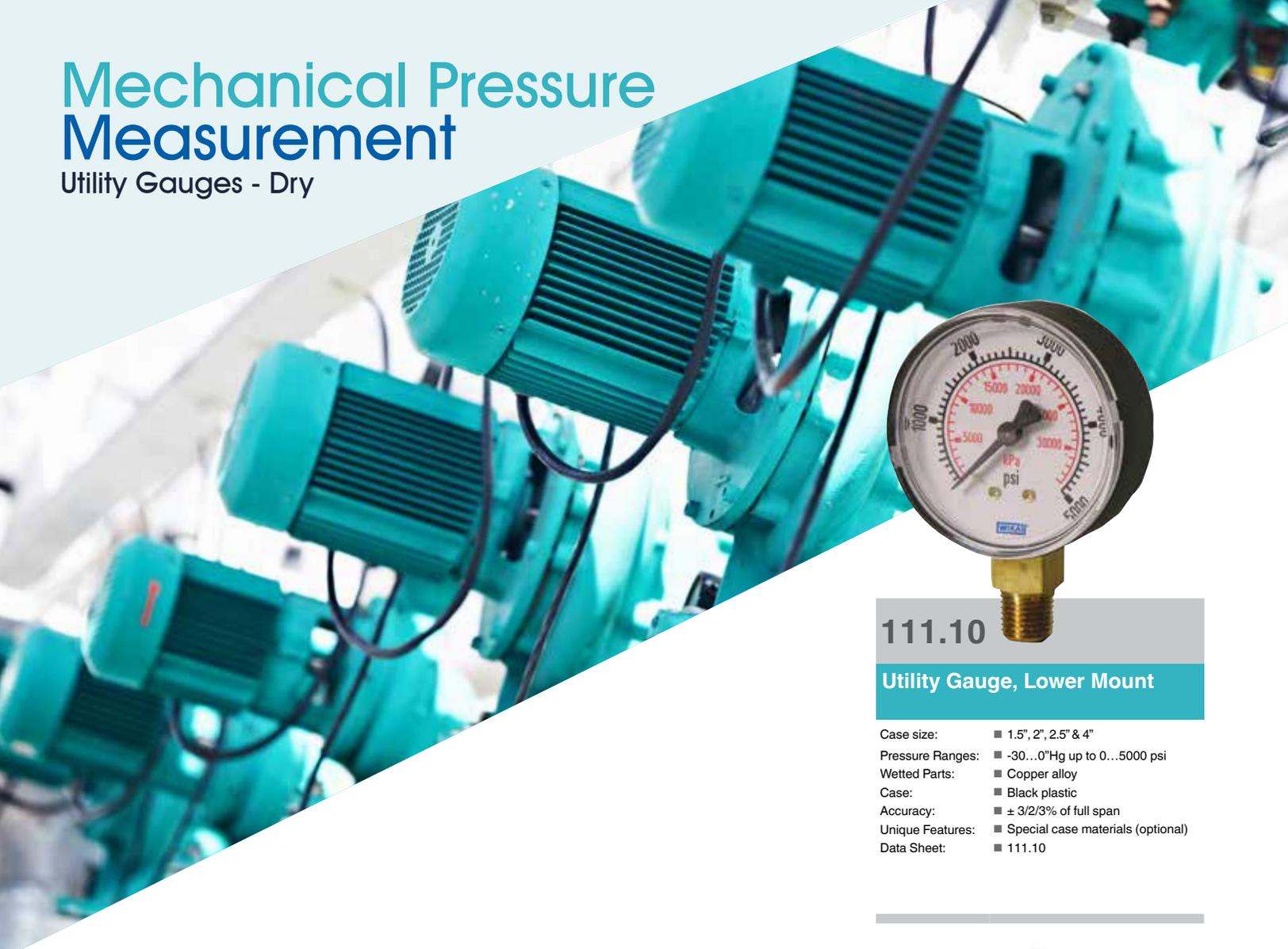
WIKA offers pressure measurement technologies to help you monitor the absolute, gauge, vacuum and differential pressure of your operations. Our solutions are designed to ensure durability and reliability even in the most aggressive conditions.

We maintain consistent quality across product offerings to ensure you have trusted data to keep running efficiently and safely.



Mechanical Pressure Measurement

Utility Gauges - Dry



111.10

Utility Gauge, Lower Mount

- Case size: ■ 1.5", 2", 2.5" & 4"
- Pressure Ranges: ■ -30...0"Hg up to 0...5000 psi
- Wetted Parts: ■ Copper alloy
- Case: ■ Black plastic
- Accuracy: ■ ± 3/2/3% of full span
- Unique Features: ■ Special case materials (optional)
- Data Sheet: ■ 111.10



111.12

Utility Gauge, Back Mount

- Case size: ■ 1.5", 2", 2.5" & 4"
- Pressure Ranges: ■ -30...0"Hg up to 0...5000 psi
- Wetted Parts: ■ Copper alloy
- Case: ■ Black plastic
- Accuracy: ■ ± 3/2/3% of full span
- Unique Features: ■ Special case materials (optional)
- Panel mount w/u-clamp (optional)

Data Sheet: ■ 111.12



111.11

Regulator Gauge

- Case size: ■ 1.5", 2" & 2.5"
- Pressure Ranges: ■ -30...0"Hg up to 0...5000 psi
- Wetted Parts: ■ Copper alloy
- Case: ■ Steel gold plated
- Accuracy: ■ ± 3/2/3% of full span
- Unique features: ■ UL 252 & UL 404 approvals
- Free of oil and grease
- Other case materials (optional)

Data Sheet: ■ 111.11



111.25

Contractor Gauge

- Case size: ■ 4.5"
- Pressure Ranges: ■ -30...0"Hg up to 0...5000 psi
- Wetted Parts: ■ Copper alloy
- Case: ■ 304 stainless steel
- Accuracy: ■ ± 1.0 % of full span
- Unique Features: ■ Surface mounting flange (optional)
- Data Sheet: ■ 111.25

Mechanical Pressure Measurement

Factory Liquid Filled



113.13

Utility Gauge, Liquid Filled

- Case size: ■ 1.5", 2" & 2.5"
- Pressure Ranges: ■ -30...0"Hg up to 0...5000 psi
- Wetted Parts: ■ Copper alloy
- Case: ■ Black plastic, glycerin filled
- Ingress Protection: ■ IP 65
- Accuracy: ■ ± 3/2% of full span
- Unique Features: ■ Factory glycerin filled
- 1.5" only available in CBM
- Data Sheet: ■ 113.13



213.53

Hydraulic Gauge, Economy Style

- Case size: ■ 2", 2.5" & 4"
- Pressure Ranges: ■ -30...0"Hg up to 0...15000 psi
- Wetted Parts: ■ Brass
- Case: ■ 304 stainless steel
- Ingress Protection: ■ IP 65
- Accuracy: ■ ± 2/1% of full span
- Unique Features: ■ Factory glycerin filled
- Easily adaptable with u-clamp bracket & front flange (optional)
- Data Sheet: ■ 21X.53

Hydraulic Gauge, Liquid Filled

213.40

Case Size
2½" & 4"

Pressure Ranges
-30...0"Hg up to 0...15000 psi

Wetted parts
Copper alloy

Case
Cast brass

Ingress Protection
IP65

Accuracy
± 2/1% of full span

Unique Features
Factory glycerin filled
ABS gold colored cover ring

Data Sheet
213.40



- Best Hydraulic Gauge in the industry
- Serves the US market for 50 years
- One-piece cast brass case & socket
- Extremely shock and vibration resistant design
- Bourdon tube soldered into the case
- Factory liquid filled with 99.7% Glycerin
- Comes standard with ABS Gold colored cover ring
- Several mounting options (surface/panel) available

Mechanical Pressure Measurement

NSF-61-G Approved Drinking Water Gauges



111.10DW

Drinking Water Gauge, Lower Mount

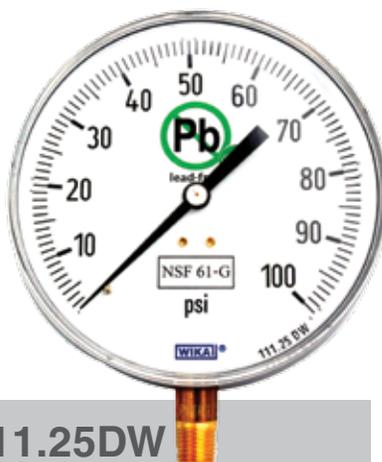
- Case size: ■ 2", 2.5" & 4"
- Pressure Ranges: ■ -30...0"Hg up to 0...600 psi
- Wetted Parts: ■ Lead free brass ($\leq 0.25\%$)
- Case: ■ Black plastic (standard)
- Accuracy: ■ $\pm 3/2/3\%$ of full span
- Unique Features: ■ NSF 61 G approved
■ Meets "Safe drinking water act" of 2015.
- Data Sheet: ■ 111.10DW



111.12DW

Drinking Water Gauge, Back Mount

- Case size: ■ 1.5", 2" & 2.5"
- Pressure Ranges: ■ -30...0"Hg up to 0...600 psi
- Wetted Parts: ■ Lead free brass ($\leq 0.25\%$)
- Case: ■ Black plastic (standard)
- Accuracy: ■ $\pm 3/2/3\%$ of full span
- Unique Features: ■ NSF 61 G approved
■ Meets "Safe drinking water act" of 2015.
- Data Sheet: ■ 111.12DW



111.25DW

Drinking Water Gauge, Contractor Style

- Case size: ■ 4.5"
- Pressure Ranges: ■ -30...0"Hg up to 0...600 psi
- Wetted Parts: ■ Lead free brass ($\leq 0.25\%$)
- Case: ■ 304 Stainless steel
- Accuracy: ■ $\pm 3/2/3\%$ of full span
- Unique Features: ■ NSF 61 G approved
■ Meets "Safe drinking water act" of 2015.
- Data Sheet: ■ 111.25DW



213.53DW

Drinking Water Gauge, Liquid Filled

- Case size: ■ 2.5"
- Pressure Ranges: ■ -30...0"Hg up to 0...600 psi
- Wetted Parts: ■ Lead free brass ($\leq 0.25\%$)
- Case: ■ 304 stainless steel
- Ingress Protection: ■ IP65
- Accuracy: ■ $\pm 2/1/2\%$ of full span
- Unique Features: ■ NSF 61 G approved
■ Meets "Safe drinking water act" of 2015.
■ Factory liquid filled.
- Data Sheet: ■ 213.53DW

Mechanical Pressure Measurement

All Stainless Steel Gauges



232.53, 233.53

Crimped Bezel, Field Liquid Fillable

- Case size: ■ 2", 2.5" & 4"
- Pressure Ranges: ■ -30...0"Hg up to 0...15,000 psi
- Wetted Parts: ■ 316 stainless steel
- Case: ■ 304 stainless steel
- Ingress Protection: ■ IP 65
- Accuracy: ■ ± 2/1/2 % of full span (2" & 2.5")
■ ± 1% of full span (4")
- Unique Features: ■ Field fillable
■ Easily adaptable with u-clamp bracket & front flange (optional)
■ Liquid filled version 233.53
- Data Sheet: ■ 23X.53



232.54, 233.54

Bayonet Bezel, Field Liquid Fillable

- Case size: ■ 2.5" & 4"
- Pressure Ranges: ■ -30...0"Hg up to 0...15,000 psi
- Wetted Parts: ■ 316 stainless steel
- Case: ■ 304 stainless steel
- Ingress Protection: ■ IP 65
- Accuracy: ■ ± 2/1/2 % of full span (2.5")
■ ± 1% of full span (4")
- Unique Features: ■ Field fillable
■ Easily adaptable with u-clamp bracket & front flange (optional)
■ Liquid filled version 233.54
- Data Sheet: ■ 23X.54



233.55

Panel Builder Gauge, Factory Filled Case

- Case size: ■ 2.5"
- Pressure Ranges: ■ -30...0"Hg up to 0...15,000 psi
- Wetted Parts: ■ 316 stainless steel
- Case: ■ 316 stainless steel
- Ingress Protection: ■ IP 65
- Accuracy: ■ ± 2/1/2 % of full span
- Unique Features: ■ Case, ring & FF 316 stainless steel
■ Case factory filled with Glycerin
■ Front flange spot welded to case
■ LBM connection position
- Data Sheet: ■ 233.55



232.50, 233.50

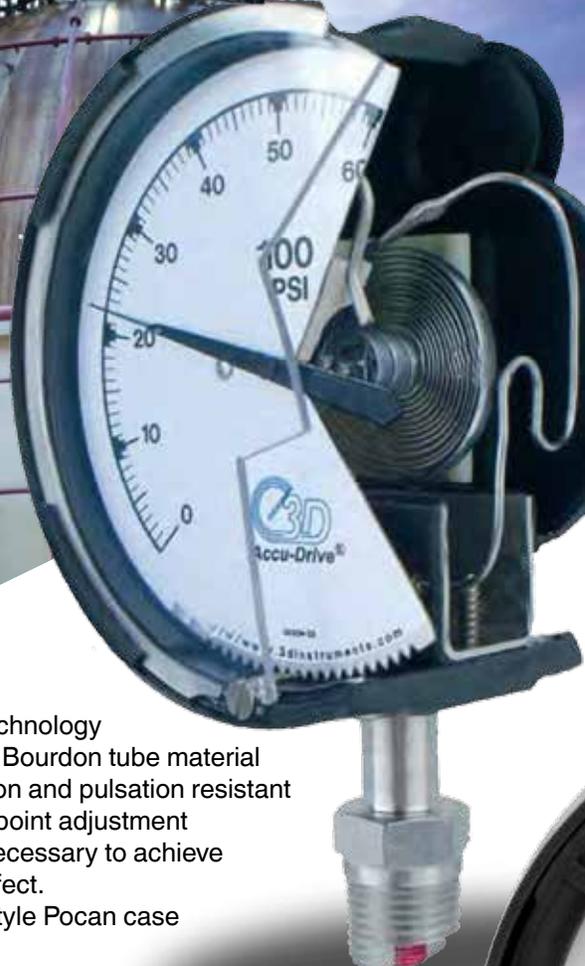
Bayonet Bezel, European Style, Field Liquid Fillable

- Case size: ■ 2.5", 4", 4.5" & 6"
- Pressure Ranges: ■ -30...0"Hg up to 0...15,000 psi
- Wetted Parts: ■ 316 stainless steel
- Case: ■ 304 stainless steel
- Ingress Protection: ■ IP 65
- Accuracy: ■ ± 2/1/2% of full span (2.5")
■ ± 1% of full span (4", 4.5" & 6")
- Unique Features: ■ Field fillable
■ Liquid filled version 233.50
- Data Sheet: ■ 23X.50 / 23X.50 4.5



Mechanical Pressure Measurement

Solid Front Safety Gauges



- Direct drive technology
- Inconel X-750 Bourdon tube material
- Shock, vibration and pulsation resistant
- External zero point adjustment
- Case fill not necessary to achieve dampening effect.
- Yellow turret style Pocan case



232.30, 233.30

Bayonet Bezel, Solid Front Design, Field Liquid Fillable

- Case size: ■ 2.5", 4", 4.5" & 6"
- Pressure Ranges: ■ -30...0"Hg up to 0...20,000 psi
■ Case size 2.5" up to 15,000 psi
- Wetted Parts: ■ 316 stainless steel
- Case: ■ 304 stainless steel
- Ingress Protection: ■ IP 65
- Accuracy: ■ ± 2/12 % of full span (2.5")
■ ± 1 % of full span (4", 4.5" & 6")
- Unique Features: ■ Field fillable
■ Size 4.5" and 6" available in lower mount only.
■ Liquid filled version 233.30 (LM only)
- Data Sheet: ■ 23X.30 / 23X.30 4.5

Direct Drive Gauge, Solid Front Design 232.34DD

Case Size
4 1/2"

Pressure Ranges
-30"Hg...30 psi up to 0...10,000 psi

Wetted parts
Stainless steel & Inconel X-750

Case
Yellow thermoplastic (Pocan)

Ingress Protection
IP54

Accuracy
± 0.5 % of full span
± 1.0 % (ranges 0/10,000 psi & up)

Unique Features
Silicone dampened Bourdon tube

Data Sheet
232.34DD



Mechanical Pressure Measurement

US Process Type Gauges

- Standard supplied with compensating membrane for field case filling (LM gauges only).
- Standard equipped with a threaded restrictor for pulsation dampening.
- Case, ring and blow-out back made from black thermoplastic (Pocan) with a flammability rating of V-0 per UL-94
- Hardened SS movement with all moving parts lubricated with Krytox (dry gauges only).
- Industry leading 5-year warranty on the gauge and a 10-year warranty on the pressure system.



Process Gauge, Solid Front Design, Field Liquid Fillable

232.34, 233.34 XSEL

Case Size
4½" & 6"

Pressure Ranges
-30"Hg up to 0...30,000 psi

Wetted parts
316L stainless steel

Case
Black thermoplastic (Pocan)

Ingress Protection
IP 65 (LBM IP 54)

Accuracy
± 0.5 % of full span
± 1.0 % (ranges 0/20,000 psi & up)

Unique Features
Field fillable (LM only)
Liquid filled version (233.34)

Data Sheet
23X.34



910.18.100

Gauge Cover

- | | |
|------------------|--|
| Case size: | ■ 4.5" |
| Material: | ■ Clear PVC, 0.025" (25 mil) thick
■ Flammability rating V-0 per UL-94 |
| P/N: | ■ 52551890 |
| Unique Features: | ■ Ideally to protect gauge from spills, splashes and other environmental contaminations. |
| Data Sheet: | ■ 910.18.100 |



Set Point Indicator

Red

- | | |
|------------------|---|
| Case size: | ■ 4.5" |
| Material: | ■ Red plastic |
| P/N: | ■ 52600050 |
| Unique Features: | ■ Attaches to the outside of the window ring
■ Adjustable over 360 degrees
■ Fits all 4.5" turret style cases |

Mechanical Pressure Measurement

US Process Type Gauges



212.34, 213.34 XSEL

Process Gauge, Solid Front Design, Field Liquid Fillable

- Case size: ■ 4.5" & 6"
- Pressure Ranges: ■ -30"Hg up to 0...1,000 psi
- Wetted Parts: ■ Copper alloy
- Case: ■ Black thermoplastic (Pocan)
- Ingress Protection: ■ IP 65 (LBM IP 54)
- Accuracy: ■ ±0.5% of full span
- Unique Features: ■ Field fillable (LM only)
- Liquid filled version 213.34
- Data Sheet: ■ 21X.34



262.34, 263.34 XSEL

Process Gauge, Solid Front Design, Field Liquid Fillable

- Case size: ■ 4.5" & 6"
- Pressure Ranges: ■ -30"Hg up to 0...15,000 psi
- Wetted Parts: ■ Monel M400
- Case: ■ Black thermoplastic (Pocan)
- Ingress Protection: ■ IP 65 (LBM IP 54)
- Accuracy: ■ ±0.5% of full span
- Unique Features: ■ Field fillable (LM only)
- Liquid filled version 263.34
- Data Sheet: ■ 26X.34



212.25, 232.25

"Hinged Ring" Panel Mount Process Gauge, Solid Front

- Case size: ■ 4.5" & 6"
- Pressure Ranges: ■ -30"Hg up to 0...20,000 psi (232.25)
- -30"Hg up to 0...1,000 psi (212.25)
- Wetted Parts: ■ 316 stainless steel (232.25)
- Copper alloy (212.25)
- Case: ■ Aluminum black painted with steel
- black ring and 304SS blow-out back
- Ingress Protection: ■ IP 54
- Accuracy: ■ ±0.5% of full span
- ±1.0% (range 0/20,000 psi)
- Unique Features: ■ Access to adjustable pointer for zero point adjustment by removing the hinged ring.
- Data Sheet: ■ 212.25, 232.25

Mechanical Pressure Measurement

Low Pressure Capsule Gauges



611.10

Low Pressure Capsule Gauge, Standard Design

- Case size: ■ 2" & 2.5"
- Pressure Ranges: ■ 0...25 InWC to 0...250 InWC (2" case size)
- 0...10 InWC to 0...250 InWC (2.5" case size)
- Wetted Parts: ■ Copper alloy
- Case: ■ Steel black
- Ingress Protection: ■ IP 33
- Accuracy: ■ $\pm 1.6\%$ of full span
- Unique Features: ■ With zero-adjustment screw on dial
- For dry, non-aggressive gaseous media only
- Case size 2" only available in CBM only
- Data Sheet: ■ 611.10



632.50, 633.50

Low Pressure Capsule Gauge, Industrial Design, All Stainless Steel

- Case size: ■ 2.5", 4" & 6"
- Pressure Ranges: ■ 0...16 InWC to 0...250 InWC (2.5" case size)
- 0...6 InWC to 0...250 InWC (4" case size)
- 0...1 InWC to 0...250 InWC (6" case size)
- Wetted Parts: ■ 316 stainless steel
- Case: ■ 304 stainless steel
- Ingress Protection: ■ IP 54
- Accuracy: ■ $\pm 1.6\%$ of full span
- Unique Features: ■ With zero-adjustment screw on dial
- For dry, gaseous media only
- Silicone case filling (optional, 633.50, in sizes 4" & 6" for ranges 0...25 InWC & up)
- Data Sheet: ■ 632.50



612.34, 632.34, 633.34

Low Pressure Capsule Gauge, Process Type

- Case size: ■ 4.5"
- Pressure Ranges: ■ 0...10 InWC to 0...250 InWC
- Wetted Parts: ■ Copper alloy (612.34)
- Stainless steel (632.34)
- Black thermoplastic (POCAN)
- Case: ■ IP 54
- Ingress Protection: ■ IP 54
- Accuracy: ■ $\pm 1.6\%$ of full span
- Unique Features: ■ For dry, gaseous media only
- Silicone case filling (optional, 633.34 for ranges 0...40 InWC & up)
- Data Sheet: ■ 6X2.34



Mechanical Pressure Measurement

Low Pressure Sealgauges™
(diaphragm gauges)



432.50, 433.50

Low Pressure Sealgauge™, Standard Design

- Case size: ■ 4" & 6"
- Pressure Ranges: ■ 0...6 InWC to 0...100 InWC (6" flange size)
■ 0...6 psi to 0...360 psi (4" flange size)
- Wetted Parts: ■ 316 stainless steel & PTFE lined diaphragm
- Case: ■ 304 stainless steel
- Ingress Protection: ■ IP 54
- Accuracy: ■ ±2.5 % of full span
- Unique Features: ■ 5x overpressure safe, not exceeding 600 psi
■ 1/2"NPT female process connection
■ Glycerin/Water case filling (optional, 433.50)
■ Solid front version (optional 432.30 & 433.30)
- Data Sheet: ■ 43X.50



452.50, 453.50

Low Pressure Sealgauge™, PTFE Wetted Parts

- Case size: ■ 4" & 6"
- Pressure Ranges: ■ 0...6 InWC to 0...100 InWC (6" flange size)
■ 0...6 psi to 0...360 psi (4" flange size)
- Wetted Parts: ■ PTFE lined stainless steel
- Case: ■ 304 stainless steel
- Ingress Protection: ■ IP 54
- Accuracy: ■ ±2.5 % of full span
- Unique Features: ■ 5x overpressure safe, not exceeding 600 psi
■ Open flange process connection
■ Glycerin/Water case filling (optional, 453.50)
■ Solid front version (optional 452.30 & 453.30)
- Data Sheet: ■ 45X.50



432.56, 433.56

Low Pressure Sealgauge™, High Overpressure Safe

- Case size: ■ 4" & 6"
- Pressure Ranges: ■ 0...6 InWC to 0...100 InWC (6" flange size)
■ 0...6 psi to 0...360 psi (4" flange size)
- Wetted Parts: ■ 316 stainless steel
- Case: ■ 304 stainless steel
- Ingress Protection: ■ IP 54
- Accuracy: ■ ±1.6 % of full span
- Unique Features: ■ High overpressure safe up to 600 psi, 1500 psi, or 6000 psi independent of the pressure range
■ Glycerin/Water case filling (optional, 433.56)
■ Solid front version (optional 432.56 & 433.56)
- Data Sheet: ■ 43X.56

Mechanical Pressure Measurement

Differential Pressure Gauges



732.25, 733.25

Differential Pressure Gauge, Dual Diaphragm High Overpressure Safe

- Case size: ■ 4.5" & 6"
- DP Ranges: ■ 0...100 InWC to 0...600 psi
- Wetted Parts: ■ 316 stainless steel & Inconel 718 diaphragm Viton O-ring
- Case: ■ Black anodized aluminum
- Accuracy: ■ ± 1.0 % of full span
- Unique Features: ■ 2 x 1/4"NPT female back connection
■ Panel mount kit included
■ Max. over-/working pressure 3000 psi
■ Glycerin case filling (optional, 733.25)
■ NACE MR-0175 compliant
- Data Sheet: ■ 732.25



712.15, 732.15

Liquid Level Cryo Gauge

- Case size: ■ 4" & 6"
- DP Ranges: ■ 0...16 InWC to 0...1600 InWC
- Wetted Parts: ■ Brass, stainless steel, NBR (712.15)
■ Stainless steel, NBR
■ membrane (732.15)
- Case: ■ 304 stainless steel
- Ingress Protection: ■ IP 65
- Accuracy: ■ ± 2.5 % of full span
- Unique Features: ■ Max. over-/working pressure 725 psi
■ 2 x 1/4"NPT female process connection
■ Manifold & integrated working pressure gauge (optional)
■ Switches and transmitters (optional)
- Data Sheet: ■ 7X2.15



732.51, 733.51

Differential Pressure Gauge, All Stainless Steel, All Welded Construction

- Case size: ■ 4" & 6"
- DP Ranges: ■ 0...6 InWC to 0...100 InWC (114 mm flange size)
■ 0...6 psi to 0...360 psi (78 mm flange size)
- Wetted Parts: ■ 316 stainless steel & Inconel 718 diaphragm
- Case: ■ 304 stainless steel
- Accuracy: ■ ± 1.6 % of full span
- Unique Features: ■ Max. over-/working pressure 360 psi, depending on pressure range.
■ 2 x 1/4"NPT female process connection
■ Glycerin/Water case (optional, 733.51)
■ Solid front version (optional, 732.31 & 733.31)
- Data Sheet: ■ 732.51



732.14, 733.14

Differential Pressure Gauge, Dual Diaphragm High Overpressure Safe

- Case size: ■ 4" & 6"
- DP Ranges: ■ 0...6 InWC to 0...100 InWC (140 mm flange size)
■ 0...6 psi to 0...360 psi (82 mm flange size)
- Wetted Parts: ■ 316 stainless steel & Inconel 718 diaphragm, Viton O-ring
- Case: ■ 304 stainless steel
- Ingress Protection: ■ IP 54
- Accuracy: ■ ± 1.6 % of full span
- Unique Features: ■ Max. over-/working pressure 600 psi (standard) 1500 psi, 3600 psi or 6000 psi (optional)
■ Glycerin/Water case fill (733.14)
■ Monel wetted parts (optional, 762.14, 763.14)
■ Hastelloy C276 wetted parts (optional)
- Data Sheet: ■ PM 07.13

Mechanical Pressure Measurement

Differential Pressure Gauges



732.26

Differential Pressure Gauge, Dual Diaphragm for Liquid Level Applications & O₂ Service

- Case size: ■ 4.5" & 6"
- DP Ranges: ■ 0...100 InWC to 0...400 psi
- Wetted Parts: ■ 316 Stainless steel & Inconel 718 diaphragm
- PTFE O-ring (halocarbon oil system fill)
- Case: ■ Black anodized aluminum
- Ingress Protection: ■ IP 65
- Accuracy: ■ ± 1.0 % of full span
- Unique Features: ■ 2 x 1/4"NPT female top/bottom connection
- Panel mount kit included
- Max. over-/working pressure 600 psi
- Data Sheet: ■ 732.26



700.04, 703.04

Differential Pressure Gauge, Piston Type

- Case size: ■ 2.5" & 4.5"
- DP Ranges: ■ 0...5 psi to 0...100 psi
- Wetted Parts: ■ Aluminum black anodized sensor housing, Ceramic magnet, SS spring & Viton O-ring
- Case: ■ Fiberglass reinforced thermoplastic
- Ingress Protection: ■ IP 65
- Accuracy: ■ ± 2.0 % of full span (on increasing pressure)
- Unique Features: ■ 2 x 1/4"NPT female back connection
- Max. working pressure 6000 psi
- Panel mount kit included
- End connection (optional)
- Stainless steel sensor housing (optional)
- Case filling (optional, 703.04)
- Data Sheet: ■ 700.04



700.05, 703.05

Differential Pressure Gauge, Piston Type with Separating Membrane

- Case size: ■ 2.5" & 4.5"
- DP Ranges: ■ 0...50 InWC to 0...100 psi
- Wetted Parts: ■ Aluminum black anodized sensor housing, ceramic magnet, SS spring & Buna-N membrane
- Case: ■ Fiberglass reinforced thermoplastic
- Ingress Protection: ■ IP 65
- Accuracy: ■ ± 2.0 % of full span (ranges ≤ 15 psi)
- ± 5.0% of full span (ranges < 15 psi) (on increasing pressure)
- Unique Features: ■ 2 x 1/4"NPT female back connection
- Max. working pressure 3000 psi
- Panel mount kit included
- Top/bottom connection (optional)
- Stainless steel sensor housing (optional)
- Case filling (optional, 703.05)
- Data Sheet: ■ 700.05

Mechanical Pressure Measurement

Differential Pressure Gauges



712.25DP

Differential Pressure Gauge, Bourdon Tube

- Case size: ■ 4.5" & 6"
- DP Ranges: ■ 0...15 psi to 0...1000 psi
- 15/15 psi to 500/500 psi (bi-directional)
- Wetted Parts: ■ Copper alloy
- Case: ■ Black epoxy coated aluminum
- Ingress Protection: ■ IP 33
- Accuracy: ■ $\pm 2\frac{1}{2}\%$ of full span
- Unique Features: ■ 2 x 1/4"NPT male lower connection
- DP indication via subtracting movement and one pointer
- Data Sheet: ■ 712.25DP



712.25DX

Duplex Differential Pressure Gauge

- Case size: ■ 4.5" & 6"
- DP Ranges: ■ 0...15 psi to 0...1000 psi
- Wetted Parts: ■ Copper alloy
- Case: ■ Black epoxy coated aluminum
- Ingress Protection: ■ IP 33
- Accuracy: ■ $\pm 2\frac{1}{2}\%$ of full span
- Unique Features: ■ 2 x 1/4"NPT male lower connection
- Duplex indication via red & black pointer: Black pointer on top indicates plus (+) side, Red pointer on bottom indicates minus (-) side
- Data Sheet: ■ 712.25DX



High Precision Test Gauges



332.54

4" Inspector Test Gauge, Accuracy Grade 3A

- Case size: ■ 4"
- Pressure Ranges: ■ 0...15 psi to 0...20,000 psi
- Wetted Parts: ■ Stainless steel
- Case: ■ Stainless steel
- Ingress Protection: ■ IP 65
- Accuracy: ■ Ranges < 1000 psi and > 1500 psi: ± 0.25 % of full span, per ASME B40.100 Grade 3A
■ Ranges 0...800 psi to 0...1500 psi: ± 0.5% of full span per ASME B40.100, Grade 3A
- Unique Features: ■ Mirror band dial
■ Micro-adjustable knife-edge pointer
■ Zipped carrying pouch
■ Calibration test report
- Data Sheet: ■ 332.54



332.34

4.5" Process Type Test Gauge, Accuracy Grade 3A

- Case size: ■ 4.5"
- Pressure Ranges: ■ 0...15 psi to 0...20,000 psi
- Wetted Parts: ■ 316 Stainless steel
- Case: ■ Black thermoplastic (POCAN)
- Accuracy: ■ Ranges < 800 psi and > 1500 psi: ± 0.25 % of full span, per ASME B40.100 Grade 3A
■ Ranges 0...800 psi to 0...1500 psi: ± 0.5% of full span per ASME B40.100, Grade 3A
- Unique Features: ■ Mirror band dial
■ Micro-adjustable knife edge pointer
- Data Sheet: ■ 332.34



312.20

6" Precision Test gauge, Accuracy Grade 3A

- Case size: ■ 6"
- Pressure Ranges: ■ 0...10 psi to 0...10,000 psi
- Wetted Parts: ■ Copper alloy
- Case: ■ 304 stainless steel
- Ingress Protection: ■ IP 54
- Accuracy: ■ ± 0.25 % of full span, per ASME B40.100 Grade 3A
- Unique Features: ■ Mirror band dial
■ Micro-adjustable knife edge pointer
- Data Sheet: ■ 312.20



342.11

10" High Precision Test gauge, Accuracy Grade 4A

- Case size: ■ 10"
- Pressure Ranges: ■ 0...10 psi to 0...23,000 psi
- Wetted Parts: ■ 316 Stainless steel socket and Ni-Fe-alloy Bourdon Tube
- Case: ■ Die-cast Aluminum, black-silver finish
- Ingress Protection: ■ IP 54
- Accuracy: ■ ± 0.1 % of full span per ASME B40.100 Grade 4A
- Unique Features: ■ Front side external zero-adjustment
■ Mirror band dial
■ Knife edge pointer
■ Calibration certificate per EN 10204-3.1
- Data Sheet: ■ 342.11



CPG1500 Precision Digital Pressure Gauge, Grade 4A

- Case size: ■ 4" with 5-1/2 digit 7-segment display
- Pressure Ranges: ■ 0...1.5 psi to 0...15,000 psi
- Wetted Parts: ■ 316 Stainless steel
- Case: ■ Die-cast aluminum
- Ingress Protection: ■ IP 65
- Accuracy: ■ ± 0.1 % of full span, per ASME B40.100 Grade 4A
■ ± 0.2 % of full span for rangers 0...1.5 psi
■ ± 0.15 % of full span for rangers 0...3 & 0...5 psi
- Unique Features: ■ Case rotatable over 330 degrees
■ Multiple pressure units to select from
■ Integrated data logger
■ WIKA-Cal compatible
■ Data transfer via WIKA wireless
■ Accuracy ± 0.05% (optional, calibration certificate included)
- Data Sheet: ■ CT 10.51



CPH6200 Hand-Held Pressure Indicator

- Dimension: ■ 5.6 x 2.8 x 1.4 inches (142 x 71 x 36 mm)
- Display: ■ 4-1/2 digits depending on range
- Pressure Ranges: ■ 0...0.4 psi up to 0...14,500 psi
- Wetted Parts: ■ 316 Stainless steel (transmitter)
- Case: ■ Impact resistant ABS
- Accuracy: ■ ± 0.2 % of full span
- Unique Features: ■ Eight selectable pressure units
■ Integrated data logger
■ Differential pressure measurement (optional)
■ Accuracy ± 0.1% (optional, calibration certificate included)
- Data Sheet: ■ CT 11.01



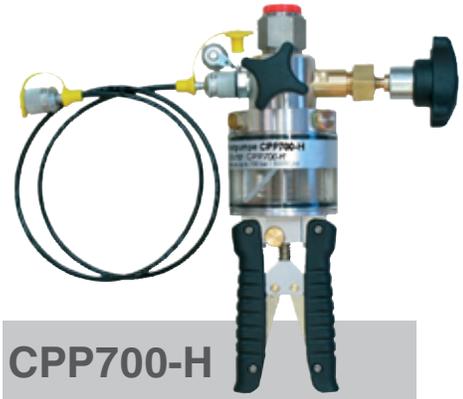
CPH6300 Hand-Held Pressure Indicator

- Dimension: ■ 6.4 x 3.4 x 1.7 inches (163 x 86 x 42 mm)
- Display: ■ 4-1/2 digits depending on range
- Pressure Ranges: ■ 0...0.4 psi up to 0...14,500 bar
- Wetted Parts: ■ 316 Stainless steel (transmitter)
- Case: ■ Impact resistant ABS
- Ingress Protection: ■ IP 65 & IP 67
- Accuracy: ■ ± 0.2 % of full span
- Unique Features: ■ Robust and waterproof case
■ Nine selectable pressure units
■ Integrated data logger
■ Differential pressure measurement (optional)
■ Accuracy ± 0.1% (optional, calibration certificate included)
- Data Sheet: ■ CT 12.01



CPP30 Pneumatic Hand Pump

- Dimension: ■ 8.7 x 4.1 x 2.5 inches (220 x 105 x 63 mm)
- Weight: ■ 1.1 pounds (0.5 kg)
- Measuring Range: ■ -950 mbar...+35 bar (-28"Hg/500 psi)
- Materials: ■ Brass, chromium-plated anodized aluminum, heavy duty plastic for handles
- Medium: ■ Air
- Connection: ■ G1/2 female on top for reference gauge 1.5 Ft. tube with G1/4 female for test device
- Unique Features: ■ Selectable pressure and vacuum generation
■ Compact design
■ Fine adjustment valve
■ Set with NPT adapters available
- Data Sheet: ■ CT 91.06



CPP700-H Hydraulic Hand Pump

- Dimension: ■ 11.0 x 6.7 x 4.7 inches (280 x 170 x 120 mm)
- Weight: ■ 4.2 pounds (1.9 kg)
- Measuring Range: ■ 0...700 bar (0...10,000 psi)
- Materials: ■ Brass, anodized aluminum, stainless steel, ABS
- Medium: ■ Hydraulic fluid on mineral oil basis or distilled water
- Connection: ■ G1/2 female on top for reference gauge
■ 3.2 Ft. HP tube with G1/4 female for test device
- Unique Features: ■ Fine adjustment valve
■ Set with NPT adapters available
- Data Sheet: ■ CT 91.07

Pressure Gauge Options

InSight™ Dial Options

Available Colors

Fluorescent yellow, fluorescent orange, Reflective white and reflective glow-in-the-dark

Available Models

21X.53 2.5" & 4"
23X.53 2.5" & 4"
23X.54 2.5" & 6"
2XX.34 4.5" & 6"
2X2.25 4.5" & 6"
TI.30, TI.31, TI.32, TI.50, TI.51 and TI.52

Application

For better visibility and to indicate critical installations



Dampened Movement

Availability

Most industrial and process type pressure gauges

Material

Brass and stainless steel

Application

For severe vibrations and pulsations where case filling is not permissible



Case Filling

Availability

Most industrial and process type pressure gauges

Fill Types

Glycerin (99.7%):

Used in most standard applications

Glycerin/Water:

Used on gauges which require a lower viscosity

Silicone Oil:

Used in low temperature applications up to -40°F

Halocarbon Oil:

Inert oil used in O₂ or chlorine applications

Application

For severe vibrations and pulsations and to dampen and cool internal parts



Pressure Gauge Options



Gauge Jacket XSEL Process Gauge

Case Size
4.5"

Material
Aluminum cloth with silica aerogel insulator

Part Number
52735671

Unique Features
Protects Gauge from external heat source. Internal temp. drop of 170°F when exposed to 250°F



Restrictors

Availability
Most gauges with male process connection

Material
Brass, 316 stainless steel & Monel

Application
For severe pulsations and pressure spikes

Red Drag Pointer

Availability
Most industrial and process type pressure gauges

Material
Aluminum red on safety glass or plastic window

Adjustment
Externally adjustable with fixed or removable key

Application
For indication of maximum pressure values



Mounting Options

Availability
Most utility, industrial & process type gauges

Mounting Types
U-clamp bracket for panel mounting
Front flanges for panel mounting
Rear flanges for surface/wall mounting

Application
For installations into panels or onto surfaces

Pressure Gauge Accessories



Needle Valves

910.11, 910.11.100,
910.11.200, 910.11.300

Application

To isolate pressure gauges from
the measured media

Material

Brass (910.11.100 only), carbon steel
or 316 stainless steel

Data Sheet

910.11, 910.11.100,
910.11.200, 910.11.300

Pressure Snubbers

910.12.100, 910.12.100,
910.12.200

Application

To protect pressure gauge from
pulsations and pressure spikes

Material

Brass & stainless steel

Data Sheet

910.12



Overpressure Protector

910.13

Application

To protect pressure gauge from
damaging pressure spikes and surges

Material

316 stainless steel

Data Sheet

910.13



Pressure Gauge Accessories

Cooling Adapters 910.32.100, 910.32.200

Application

For the protection of pressure gauges in high temperature applications exceeding the allowable media temperature range of the instrument

Material

316 stainless steel

Data Sheet

910.32.100, 910.32.200



Mini Siphon 910.15.400

Application

For the protection of pressure gauges from high temperature in steam applications and where space restrictions apply. Reduces pressure surges and "water hammer".

Material

316 stainless steel

Data Sheet

910.15.400



Siphons 910.15.100, 910.15.200

Application

For the protection of pressure gauges from high temperature in steam applications.

Material

brass, steel & 316 stainless steel

Data Sheet

910.15



IntelliGAUGES – Pressure gauges with electrical output signal

The multi-functional IntelliGAUGE provides a cost-effective and reliable solution for nearly all pressure measurement applications. They combine the local display of a mechanical pressure gauge with the electrical output signal of a pressure transmitter. These hybrid instruments are available with all commonly used electrical signals. The sensor works non-frictional without any mechanical influence on the measurement signal. Many of the instruments are available in accordance to ATEX Ex II 2 G ia. For pressure gauges in case sizes 4" and 6" the electrical output signal can also be combined with a switch contact.



PGT21

Utility Grade, Brass Internals

- Case size: ■ 2" & 2.5"
- Pressure Ranges: ■ -30"Hg...0 up to 0...6000 psi
- Wetted Parts: ■ Copper alloy
- Case: ■ 304 stainless steel
- Ingress Protection: ■ IP 65, optional IP 67
- Output Signal: ■ Various, depending on power supply
- Accuracy: ■ ± 1.6 % or ± 2.5 % of full span
- Data Sheet: ■ PV 11.03



PGT23.063

Process Grade, All Stainless Steel

- Case size: ■ 2.5"
- Pressure Ranges: ■ -30"Hg...0 up to 0...15000 psi
- Wetted Parts: ■ 316 stainless steel
- Case: ■ 304 stainless steel
- Ingress Protection: ■ IP 54, optional IP 65 (liquid filled)
- Output Signal: ■ 4...20 mA
- Accuracy: ■ ± 2/1/2% of full span
- Unique Features: ■ Solid front safety design (standard)
■ Silicone case filling (optional)
- Data Sheet: ■ PV 12.03



Mechatronic Pressure Measurement



PGT23.100, PGT23.160

**Process Grade,
All Stainless Steel**

- Case size: ■ 4" & 6"
- Pressure Ranges: ■ -30"Hg...0 up to 0...30000 psi
- Wetted Parts: ■ 316 stainless steel
- Case: ■ 304 stainless steel
- Ingress Protection: ■ IP 54, optional IP 65 (liquid filled)
- Output Signal: ■ Various, ATEX version optional
- Accuracy: ■ ± 1.0 % of full span
- Unique Features: ■ Solid front safety design (standard)
■ Switch options available
- Data Sheet: ■ PV 12.04



PGT43.100, PGT43.160

**Diaphragm Type,
All Stainless Steel**

- Case size: ■ 4" & 6"
- Pressure Ranges: ■ 0...10"WC up to 0...360 psi
- Wetted Parts: ■ 316 stainless steel
- Case: ■ 304 stainless steel
- Ingress Protection: ■ IP 54, optional IP 65 (liquid filled)
- Output Signal: ■ Various, ATEX version optional
- Accuracy: ■ ± 1.6 % of full span
- Unique Features: ■ Solid front safety design (standard)
■ 5-times OP safe, up to 600 psi
■ Switch options available
- Data Sheet: ■ PV 14.03



DPGT43.100, DPGT43.160

**Differential Pressure Type,
All Stainless Steel**

- Case size: ■ 4" & 6"
- Pressure Ranges: ■ 0...10"WC up to 0...360 psi
- Wetted Parts: ■ 316 stainless steel
- Case: ■ 304 stainless steel
- Ingress Protection: ■ IP 54, optional IP 65 (liquid filled)
- Output Signal: ■ Various, ATEX version optional
- Accuracy: ■ ± 1.6 % of full span
- Unique Features: ■ Solid front safety design (standard)
■ Max working pressure 360 psi, depending on range
■ Switch options available
- Data Sheet: ■ PV 17.05



DPGT43HP.100, DPGT43HP.160

**Differential Pressure Type,
High Overpressure Safe**

- Case size: ■ 4" & 6"
- Pressure Ranges: ■ 0...25"WC up to 0...600 psi
- Wetted Parts: ■ 316 stainless steel
- Case: ■ 304 stainless steel
- Ingress Protection: ■ IP 54, optional IP 65 (liquid filled)
- Output Signal: ■ 4...20 mA, 2-wire, ATEX version optional
- Accuracy: ■ ± 1.6 % of full span
- Unique Features: ■ High overpressure safe up to 600 psi and optional up to 1500 psi, 3600 psi or 6000 psi.
■ Switch options available
- Data Sheet: ■ PV 17.13

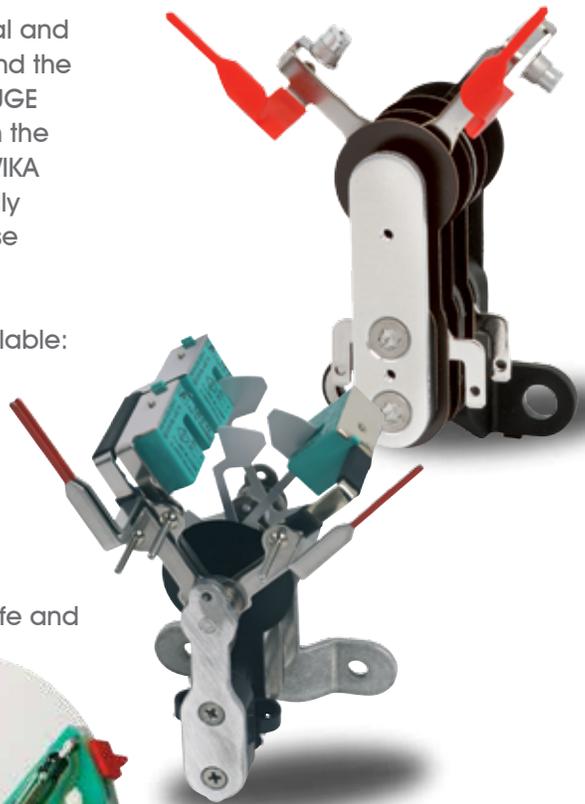
switchGAUGES – Pressure gauges with switch output

Control systems are becoming more and more important in industrial and process applications. Critical applications often require an alarm and the capability to open or close an electrical circuit. The WIKA switchGAUGE combines the local indication of a mechanical pressure gauge with the functions of a mechanical switch. One of the advantages of most WIKA switchGAUGE's is the capability to easily adjust the set point externally between 10 and 90% of the pressure scale without the additional use of a separate reference gauge.

Depending on the gauge model the following switch types are available:

- Magnetic snap-action contact
- Inductive contact
- Electronic contact
- Reed switch
- Micro switch
- Transistor output NPN or PNP

All instruments with inductive contacts are considered intrinsically safe and can be certified in accordance with ATEX Ex II 2 GD c TX.



Mechatronic Pressure Measurement



PGS11

Utility Grade, Externally Adjustable

- Case size: ■ 1.5, 2" & 2.5"
- Pressure Ranges: ■ 0...60 psi up to 0...6000 psi
- Wetted Parts: ■ Copper alloy
- Case: ■ 304 stainless steel
- Ingress Protection: ■ IP 41
- Switch Type: ■ Magnetic snap-action
- Accuracy: ■ ± 2.5 % of full span
- Unique Feature: ■ Up to 2 contacts available
- Data Sheet: ■ PV 21.01



PGS21

Utility Grade, Fixed Set Point

- Case size: ■ 1.5, 2" & 2.5"
- Pressure Ranges: ■ 0...60 psi up to 0...6000 psi
- Wetted Parts: ■ Copper alloy
- Case: ■ 304 stainless steel
- Ingress Protection: ■ IP 65
- Switch Type: ■ Magnetic snap-action
- Accuracy: ■ ± 2.5 % of full span
- Unique Features: ■ Fixed, factory set switch point
- Silicone oil case filling (optional)
- Data Sheet: ■ PV 21.02

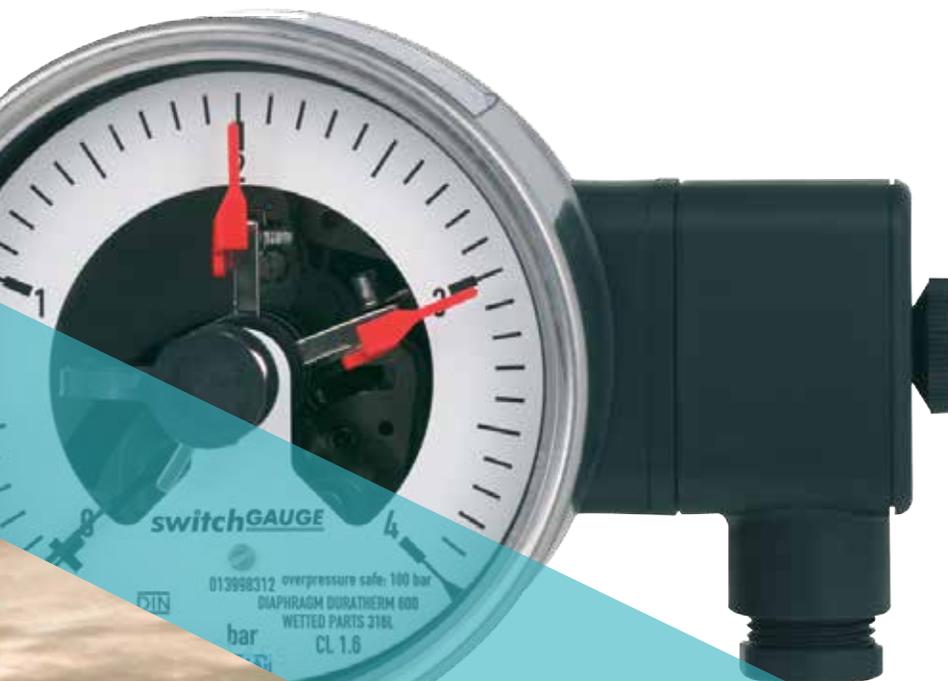


PGS23.063

Process Grade, All Stainless Steel

- Case size: ■ 2.5"
- Pressure Ranges: ■ 0...60 psi up to 0...6000 psi
- Wetted Parts: ■ 316 stainless steel
- Case: ■ 304 stainless steel
- Ingress Protection: ■ IP 54, IP 65 (optional)
- Switch Type: ■ Magnetic, Inductive, Reed & Electronic
- Accuracy: ■ ± 1.6 % of full span
- Unique Feature: ■ Solid front safety design

Data Sheet: ■ PV 22.03



PGS23.100, PGS23.160

Industrial/Process Grade, All Stainless Steel

- Case size: ■ 4" & 6"
- Pressure Ranges: ■ -30"Hg...0 up to 0...15000 psi
- Wetted Parts: ■ 316 stainless steel
- Case: ■ 304 stainless steel
- Ingress Protection: ■ IP 65
- Switch Type: ■ Magnetic, Inductive, Reed & Electronic
- Accuracy: ■ ± 1.0 % of full span
- Unique Feature: ■ Solid front safety design (optional)
- Silicone case filling (optional)

Data Sheet: ■ PV 22.02

Mechatronic Pressure Measurement



CP3000, CP4000

Alarm Contacts for 4-1/2" XSEL Process Gauge

Case size:	■ 4.5"
Pressure Ranges:	■ 0...60 psi up to 0...20000 psi (CP3000)
Wetted Parts:	■ 316 stainless steel
Case:	■ Black thermoplastic (Pocan)
Switch Type:	■ Magnetic (CP3000), Inductive (CP4000)
Unique Features:	■ Field installable
Data Sheet:	■ CP3000, CP4000



PGS43.100, PGS43.160

Diaphragm Type, All Stainless Steel

Case size:	■ 4" & 6"
Pressure Ranges:	■ 0...10"WC up to 0...360 psi
Wetted Parts:	■ 316 stainless steel
Case:	■ 304 stainless steel
Ingress Protection:	■ IP 54, optional IP 65 (liquid filled)
Switch Type:	■ Magnetic, Inductive, Reed & Electronic
Accuracy:	■ ± 1.6 % of full span
Unique Features:	■ Solid front safety design (optional)
Data Sheet:	■ PV 24.03



DPGS43.100, DPGS43.160

Differential Pressure Type, All Stainless Steel

Case size:	■ 4" & 6"
Pressure Ranges:	■ 0...10"WC up to 0...360 psi
Wetted Parts:	■ 316 stainless steel
Case:	■ 304 stainless steel
Ingress Protection:	■ IP 54, optional IP 65 (liquid filled)
Switch Type:	■ Magnetic, Inductive, Reed & Electronic
Accuracy:	■ ± 1.6 % of full span
Unique Features:	■ Max working pressure 360 psi, depending on range
	■ Solid front safety design (optional)
Data Sheet:	■ PV 27.05



DPGS43HP.100, DPGS43HP.160

Differential Pressure Type, High Overpressure Safe

Case size:	■ 4" & 6"
Pressure Ranges:	■ 0...25"WC up to 0...600 psi
Wetted Parts:	■ 316 stainless steel
Case:	■ 304 stainless steel
Ingress Protection:	■ IP 54, optional IP 65 (liquid filled)
Switch Type:	■ Magnetic, Inductive & Electronic
Accuracy:	■ ± 1.6 % of full span
Unique Features:	■ High overpressure safe up to 600 psi and optional up to 1500 psi, 3600 psi or 6000 psi.
	■ Silicone case filling (optional)
Data Sheet:	■ PV 27.13

Electronic Pressure Measurement

General Purpose
Industrial Applications



CE EAC CRN

S-11, F-21

Standard Industrial Grade Transmitters, Flush Diaphragm

- Non-Linearity: ■ Up to $\pm 0.125\%$ B.F.S.L. of full span
- Measuring Ranges: ■ 0...50"WC up to 0...8,000 psi
 ■ Positive/negative gauge pressure and absolute pressure
- Output Signal: ■ 4...20 mA, DC 0...5 V, 0...10 V & other current & voltage output signals
- Unique Features: ■ Flush process connection for viscous media
 ■ Compact design and rugged construction
 ■ High temperature version up to 300°F (optional)
- Data Sheet: ■ PE 81.02



UL US EAC CE

A-10

General Purpose Transmitter

- Accuracy: ■ Up to $\pm 0.25\%$ B.F.S.L. of full span
- Measuring Ranges: ■ 0...20"WC up to 0...15,000 psi
 ■ Positive/negative gauge pressure and absolute pressure
- Output Signal: ■ 4...20 mA, DC 0...5 V, 0...10 V & other voltage & ratiometric output signals
- Unique Features: ■ Suitable for most general industrial applications
 ■ Compact design
 ■ Test report included with unit
 ■ Exceptional number of variations
- Data Sheet: ■ PE 81.60



CE EAC

DG-10-S, DG-10-E

Digital Pressure Gauges

- Accuracy: ■ Up to $\pm 0.25\%$ of full span B.F.S.L.
- Measuring Ranges: ■ 0...100 psi up to 0...10000 psi
 ■ Positive/negative gauge pressure
- Ingress Protection: ■ IP 65
- Unique Features: ■ Local indication with transmitter accuracy
 ■ 3.15" (80 mm) case diameter
 ■ Battery powered (2 x 1.5V AA batteries)
 ■ Enhanced version (DG-10-E) includes black rubber boot, illuminated display, second display for min/max and with tare feature
 ■ DG-10-E rotatable over 300°
- Data Sheet: ■ PE 81.66



Standard Industrial Grade Transmitter S-20

Non-Linearity
Up to $\pm 0.125\%$ B.F.S.L. of full span

Measuring Ranges
0...10 psi up to 0...20,000 psi (S-20)
Positive/negative gauge pressure and absolute pressure

Output Signal
4...20 mA, DC 0...5 V, 0...10 V & other current, voltage & ratiometric (S-20) output signals

Unique Features
Robust design for use in harsh environments
Extreme shock & vibration resistant
Test report included with each unit
With NEMA 4X connection head (S-20F)

Data Sheet
PE 81.61

UL US LISTED EAC CE

Electronic Pressure Measurement

General Purpose
Industrial Applications



UL^{us} ENEC CE

PSD-30, PSD-31

Pressure Transmitters with Integral LED Display and Switch Options

- Non-Linearity: ■ $\pm 0.50\%$ B.F.S.L. of full span
- Measuring Ranges: ■ 0...15 psi up to 0...8000 psi
- Output Signal: ■ Positive/negative gauge pressure and absolute pressure
- Unique Features: ■ Dual PNP switch output & 4...20 mA or DC 0...10V
- Dual NPN switch output & 4...20 mA
- Over 320° rotatable case and display
- I/O link compatible
- Optional available with flush diaphragm (PSD-31)
- Data Sheet: ■ PE 81.67



ENI CE

TSD-30

Temperature Transmitter with Integral LED Display and Switch Options

- Non-Linearity: ■ $\pm 0.50\%$ B.F.S.L. of full span
- Measuring Ranges: ■ -4...+176°F (user selectable for °C)
- Output Signal: ■ Dual PNP switch output & 4...20 mA or 0...10V
- Probe Length: ■ Dual NPN switch output & 4...20 mA
- From 25 mm (0.93") up to 350 mm (13.78")
- Unique Features: ■ Over 320° rotatable case and display
- I/O link compatible
- Data Sheet: ■ TE 67.03



ENI CE

LSD-30

Level Transmitter with Integral LED Display and Switch Options

- Non-Linearity: ■ $\pm 0.50\%$ B.F.S.L. of full span (analog output)
- Measuring Ranges: ■ 189 mm (7.44") to 730 mm (26.34")
- Output Signal: ■ Dual PNP switch output & 4...20 mA or DC 0...10V
- Sensor Length: ■ Dual NPN switch output & 4...20 mA
- From 250 mm (9.84") up to 730 mm (28.74")
- Unique Features: ■ Over 320° rotatable case and display
- User selectable units in mm, cm & %
- Data Sheet: ■ LM 40.01

Electronic Pressure Measurement

Special Purpose
Industrial Applications



ERC CE

HP-2-S, HP-2-D, HP-2-E

High Pressure Transmitters

- Non-Linearity: ■ Up to $\pm 0.25\%$ B.F.S.L. of full span
- Measuring Ranges: ■ 0...23000 psi up to 0...215,000 psi
- Output Signal: ■ 4...20 mA, DC 0...5 V, 0...10 V output signals
- Unique Features: ■ Very high long-term stability
 ■ Excellent load cycle
 ■ Diaphragm impact protection system (HP-2-D)
 ■ Exchangeable process connection (HP-2-E)
 ■ Test report included with each unit
- Data Sheet: ■ PE 81.53



ERC CE

P-30, P-31

High Precision Pressure Transmitters

- Non-Linearity: ■ $\pm 0.05\%$ B.F.S.L. of full span
- Measuring Ranges: ■ 0...100"WC up to 0...10,000 psi
- Output Signal: ■ Positive gauge pressure and absolute pressure
 ■ 4...20 mA, 0...20 mA, DC 0...5 V, DC 0...10 V USB & CANopen®
- Unique Features: ■ Zero thermal error in the range of 50...140°F
 ■ Outstanding signal to noise ratio
 ■ On-Site calibration via product software
 ■ Test report included with every unit
 ■ Optional available with flush diaphragm (P-31)
- Data Sheet: ■ PE 81.54



ERC Ex CE

UPT-20, UPT-21

Universal Process Transmitter

- Non-Linearity: ■ $\pm 0.15\%$ B.F.S.L. of full span
- Measuring Ranges: ■ 0...10 psi up to 0...15,000 psi
 ■ Positive/negative gauge pressure
- Output Signal: ■ 4...20 mA, HART®
- Unique Features: ■ Large multi-functional and rotatable display
 ■ Freely scalable measuring ranges
 ■ 100:1 turndown
 ■ Stainless steel case optional
 ■ Optional available with flush diaphragm (P-31)
- Data Sheet: ■ PE 86.05



Electronic Pressure Measurement

Submersible Pressure Transmitters



ERC  CE

LS-10

Standard Submersible Level Transmitter

- Non-Linearity: ■ $\pm 0.25\%$ B.F.S.L. of full span
- Measuring Ranges: ■ 0...100 inWC up to 0...160 psi positive pressure
- Output Signal: ■ 4...20 mA
- Ingress Protection: ■ IP 68 for permanent submersion up to 328 feet (100 m) water column
- Unique Features: ■ Robust design
■ Field assembly with vented polyurethane cable
■ Cable supports up to 220 lbs. (100 kg) of strain
- Data Sheet: ■ PE 81.55



ERC  CE

LH-10

High Performance Submersible Level Transmitter

- Non-Linearity: ■ $\pm 0.125\%$ B.F.S.L. of full span
- Measuring Ranges: ■ 0...50 inWC up to 0...400 psi positive pressure
- Output Signal: ■ 4...20 mA, 0...20 mA, DC0...5 V, 0...10 V & 0.5...2.5V
■ ratiometric output signals
- Ingress Protection: ■ IP 68 for permanent submersion up to 984 feet (300 m) water column
- Unique Features: ■ Optional Hastelloy body
■ Optional lightning protection with temperature measurement option Pt100
- Data Sheet: ■ PE 81.09



 ERC      CE

LH-20

High Performance Submersible Level Transmitter for Measurements in Hazardous Areas

- Non-Linearity: ■ up to $\pm 0.1\%$ B.F.S.L. of full span
- Measuring Ranges: ■ 0...50 inWC up to 0...300 psi positive gauge and absolute pressure
- Output Signal: ■ 4...20 mA, HART®
- Ingress Protection: ■ IP 68 for permanent submersion up to 984 feet (300 m) water column
- Unique Features: ■ Ideal for harsh environmental conditions
■ Optional Titanium body for high resistance
■ Optional lightning protection
■ Test report included with each unit
- Data Sheet: ■ PE 81.56



Electronic Pressure Measurement

Submersible Pressure Transmitters

WIKA LevelGuard™ Fits Level Transmitters LS-10, LH-10 and IL-10

Unique Features

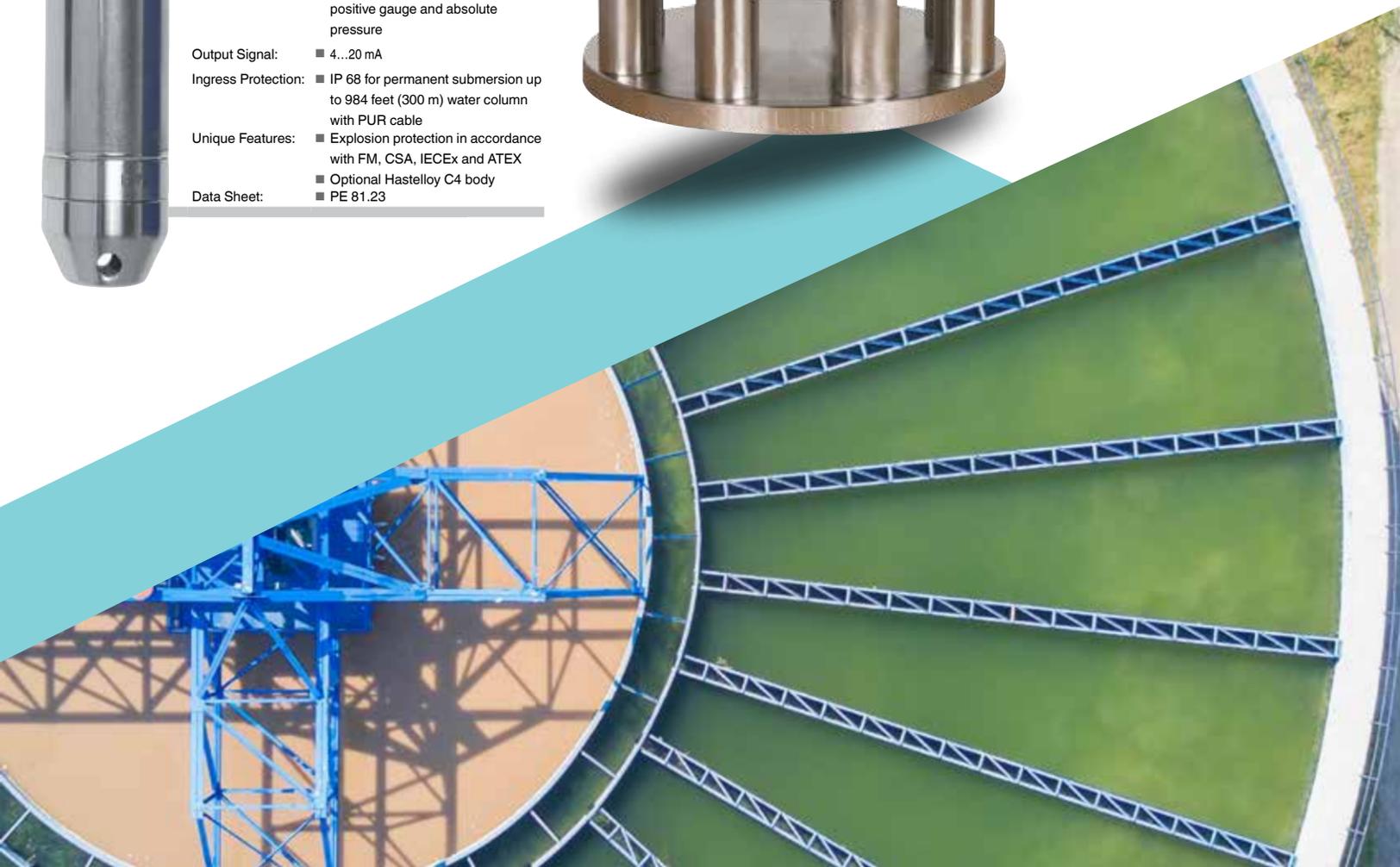
All 316 stainless steel construction
2" diameter diaphragm for excellent sensitivity
Diaphragm protected from physical damages and turbulences.
Added weight prevents movement of transmitter



IL-10

High Performance Submersible Level Transmitter for Measurements in Hazardous Areas

- Non-Linearity: ■ $\pm 0.25\%$ B.F.S.L. of full span
- Measuring Ranges: ■ 0...50 inWC up to 0...300 psi positive gauge and absolute pressure
- Output Signal: ■ 4...20 mA
- Ingress Protection: ■ IP 68 for permanent submersion up to 984 feet (300 m) water column with PUR cable
- Unique Features: ■ Explosion protection in accordance with FM, CSA, IECEx and ATEX
■ Optional Hastelloy C4 body
- Data Sheet: ■ PE 81.23



Electronic Pressure Measurement

Hazardous Area Applications



E-10, E-11

Intrinsically Safe Pressure Transmitters

- Non-Linearity: ■ $\pm 0.25\%$ B.F.S.L. of full span
- Measuring Ranges: ■ 0...5 psi up to 0...15000 psi
- Positive/negative gauge pressure and absolute pressure
- Output Signal: ■ 4...20 mA, DC 0...5 V, 0.5...4.5 V, 1...5 V & 0...10 V
- Unique Features: ■ For sour gas applications (NACE)
- FM/CSA approved as "explosion proof" for class I, div. 1 hazardous areas
 - ATEX approved as "flameproof enclosure" for II 2 G Ex d II C
 - Low-power version (optional)
 - Optional available with flush diaphragm (E-11)
- Data Sheet: ■ PE 81.27



IS-3, IS-3-F

Intrinsically Safe Pressure Transmitters

- Non-Linearity: ■ $\pm 0.25\%$ B.F.S.L. of full span
- Measuring Ranges: ■ 0...3 psi up to 0...15000 psi
- Positive/negative gauge pressure and absolute pressure
- Output Signal: ■ 4...20 mA
- Unique Features: ■ Class I Division I Intrinsically Safe (ia)
- IP68 and IP69K electrical connections
 - Optional available with flush diaphragm
- Data Sheet: ■ PE 81.58



N-10, N-11

Non-Incendive Pressure Transmitters

- Non-Linearity: ■ $\pm 0.25\%$ B.F.S.L. of full span
- Measuring Ranges: ■ 0...5 inWC up to 0...15000 psi
- Output Signal: ■ 4...20 mA or DC 1...5 V low power output signal
- Unique Features: ■ Wetted parts NACE MR0-175 compliant
- FM/CSA approved non-incendive for Class I, Div. 2, dust-ignition proof for Class II, Div. 1
 - Optional available with flush diaphragm (N-11)
- Data Sheet: ■ N-10/N-11

Electronic Pressure Measurement

Digital Pressure Transmitters



CE

D-10-7, D-11-7

Pressure Transmitter with Profibus® DP Interface

- Non-Linearity: ■ $\pm 0.04\%$ B.F.S.L. of full span
- Measuring Ranges: ■ 0...4 psi up to 0...15000 psi
- Positive/negative gauge pressure and absolute pressure
- Output Signal: ■ Profibus® DP protocol per EN 50170 / DIN 19245
- Unique Features: ■ Profibus® DP interface (EN 50170)
- High accuracy up to 0.1% incl. temperature error
 - Intelligent sensors with calibration and diagnostic functions
 - Transmission rate up to 12 Mbaud
 - Optional available with flush diaphragm (D-11-7)
- Data Sheet: ■ PE 81.30

CE

D-20-9, D-21-9

Pressure Transmitter with CANopen Interface

- Non-Linearity: ■ $\pm 0.2\%$ B.F.S.L. of full span
- Measuring Ranges: ■ 0...4 psi up to 0...15000 psi
- Positive/negative gauge pressure and absolute pressure
- Output Signal: ■ CANopen protocol per CiA DS-301
- Unique Features: ■ CANopen interface per DS-301
- Device profile DS-404
 - Compact size
 - Optional with integrated Y-connector
 - Optional available with flush diaphragm (D-21-9)
- Data Sheet: ■ PE 81.39



Diaphragm Seal Systems Provide Protection to Ensure Safety & Reliability

Diaphragm seal systems protect gauges from hot, viscous, contaminated or corrosive media. This added layer of protection ensures that the media doesn't reach the gauge, helping to prevent gauge failure that can cause safety issues for operations and personnel.

Diaphragm Seals

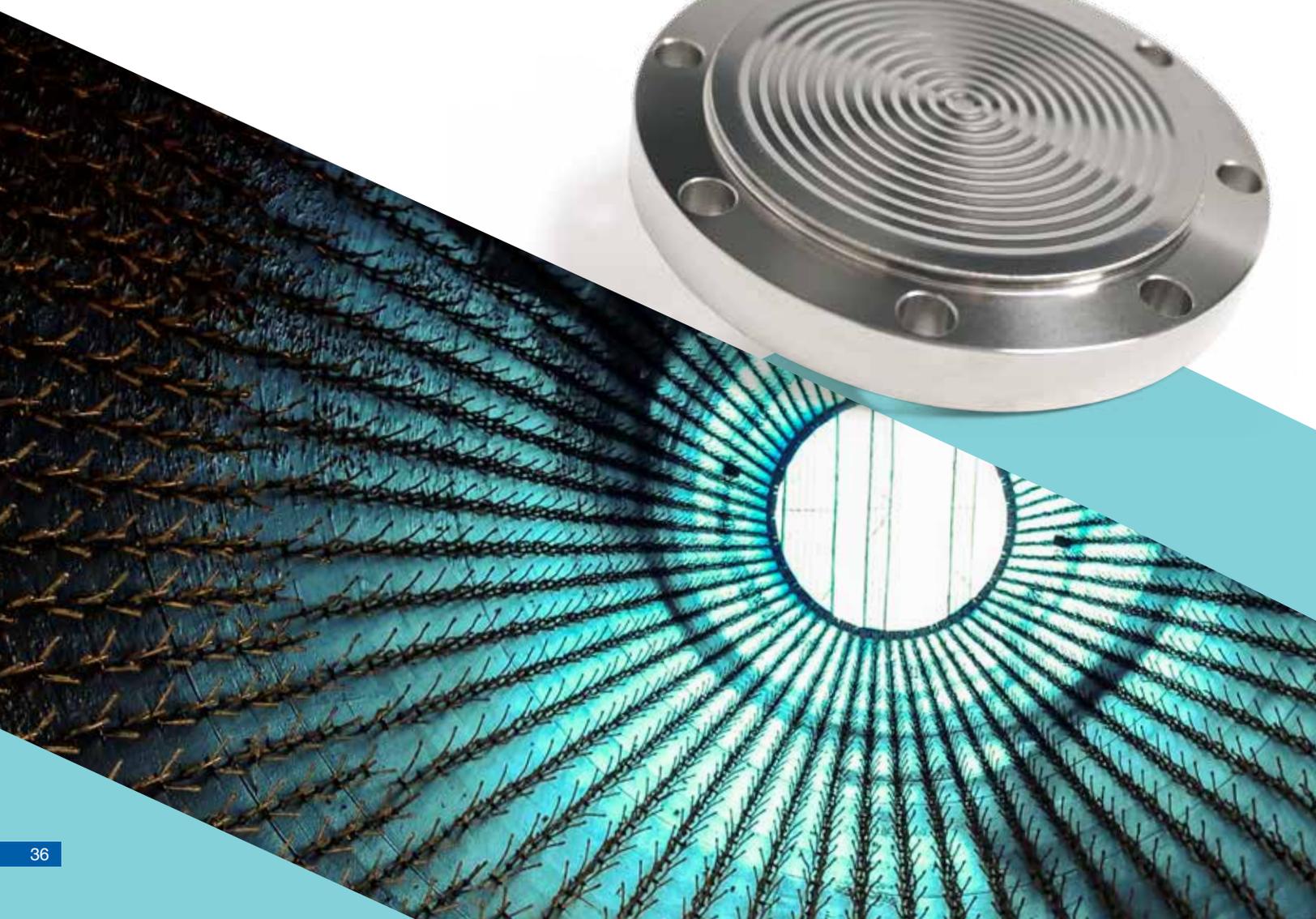
- Prevent clogging, corrosion or contamination of your pressure gauges
- Reduce fugitive emissions
- Extend the service life of the pressure instrument, which reduces process downtimes
- Reduce or eliminate maintenance costs



WIKA Combines Expertise and Technology to Provide Custom, Quality Systems

WIKA's dedicated lean manufacturing focus factory produces custom solutions for diaphragm seal systems. We fabricate seal components from raw materials using state-of-the-art CNC machining equipment, and we use innovative technologies such as metal bonding and laser welding to produce durable finished systems.

WIKA's toolbox of modular solutions and proprietary software help determine results of newly configured systems prior to manufacturing. This process minimizes the design cycle, improves lead times, optimizes safety and assures performance of your diaphragm seal solutions.



Diaphragm Seals



M93X.D1

All Welded System (AWS)

- | | |
|---------------|--|
| Ranges: | ■ -30inHG up to 5000PSI |
| Case size: | ■ 4.5" |
| Case: | ■ fiberglass reinforced thermoplastic |
| Wetted parts: | ■ 316L, HC276, Monel |
| Process: | ■ ½" NPT-M connection |
| Accuracy: | ■ +/- 0.5% of span |
| Options: | ■ consult factory
■ Express lane item |



990.10, 990.12

Standard Design, Threaded / Flanged

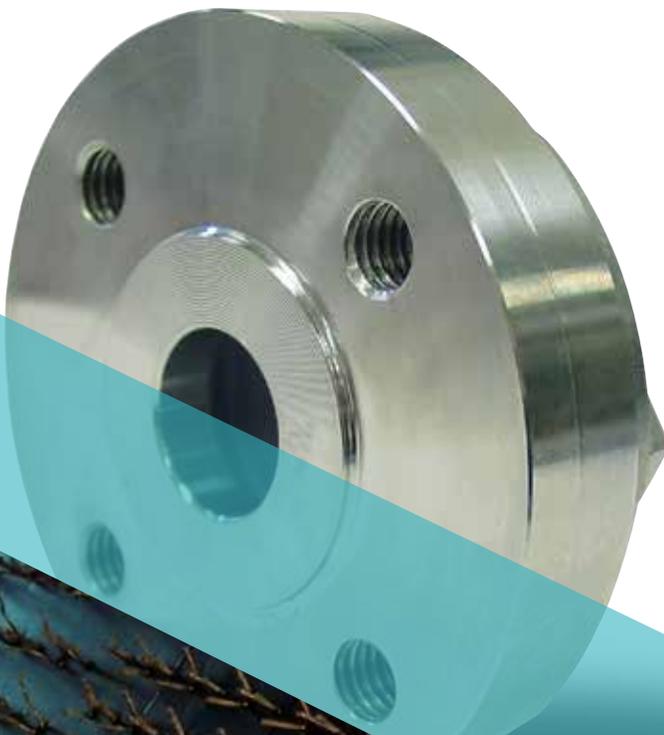
- | | |
|---------------|---|
| Instrument: | ■ ¼" of ½" NPT-F |
| Process: | ■ ¼" to 1" NPT threaded
■ ½" to 2" NPS flanged
■ ANSI B16.5 Class 150 to 1500 |
| Wetted parts: | ■ 316L, Monel, HC276, Tantalum |
| Options: | ■ consult factory
■ Express lane item |



990.TA, 990.TB

Mini Seals

- | | |
|---------------|--|
| Instrument: | ■ ¼" of ½" NPT-F |
| Process: | ■ ¼" to 1" NPT threaded |
| Wetted parts: | ■ 316L, Monel, HC276, |
| Options: | ■ consult factory
■ Express lane item |

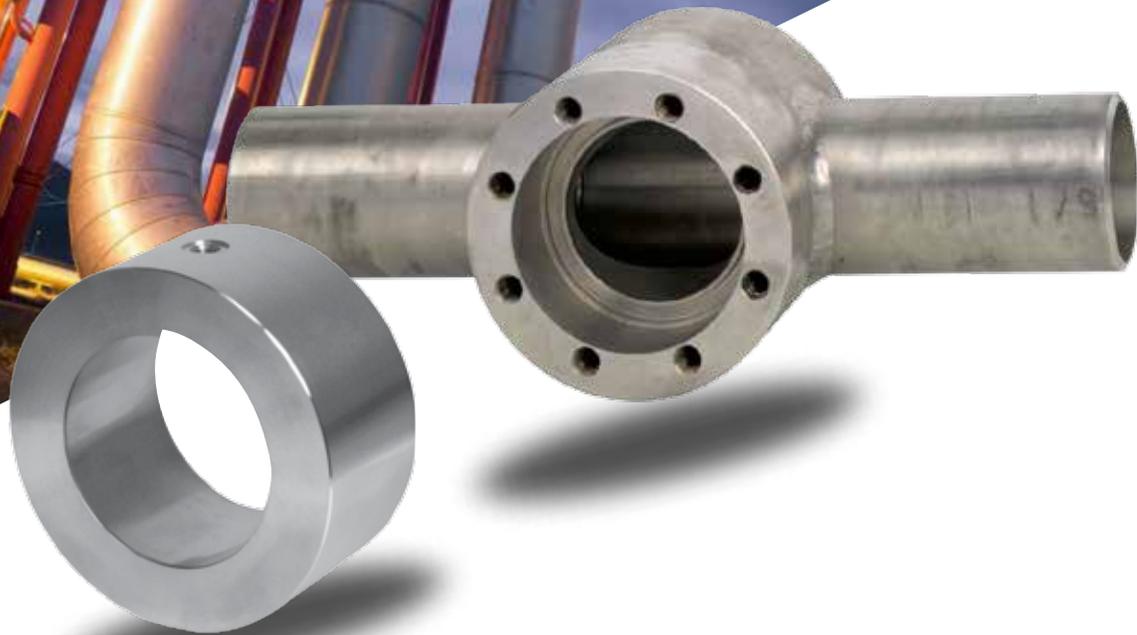


990.27, 990.28, 990.29

Flange Types, Flush & Extended

- | | |
|---------------|--|
| Instrument: | ■ ¼" of ½" NPT-F |
| Process: | ■ 2" - 5" NPS flanged 2" - 6" extension
■ ANSI B16.5 Class 150 to 1500 |
| Wetted parts: | ■ 316L, Monel, HC276, Tantalum |
| Technology: | ■ Diaphragm per TIG, Metal bonding,
Seam or Laser Welding technic applied |
| Options: | ■ consult factory |

Diaphragm Seals



990.FR, 990.ER

Flange Types, Flush & Extended - Rotatable

- | | |
|---------------|---|
| Instrument | ■ ¼" of ½" NPT-F |
| Process: | ■ 2" – 5" NPS flanged 2" -6" extension
■ ANSI B16.5 Class 150 to 1500 |
| Wetted parts: | ■ 316L, Monel, HC276, Tantalum |
| Technology: | ■ Diaphragm per TIG, Metal bonding, Seam or Laser Welding technic applied |
| Options: | ■ consult factory |



910.ZA, 910.ZB

Saddle & Block Flanges

- | | |
|---------------|--|
| Instrument | ■ ¼" of ½" NPT-F |
| Process: | ■ Saddle design
■ 1/2" – 3" socket or butt weld & flanged |
| Wetted parts: | ■ 316L, Monel, HC276 |
| Options: | ■ consult factory |



981.10, 981.27

Inline Diaphragm Seals

- | | |
|---------------|----------------------------------|
| Instrument | ■ ¼" of ½" NPT-F |
| Process: | ■ Wafer & Flange designs 1" – 4" |
| Wetted parts: | ■ 316L, Monel, HC276, Tantalum |
| Options: | ■ consult factory |

Sanitary Gauge with Dual Diaphragm Monitoring System PG43SA-D

Case size
4"

Pressure Ranges
-30"Hg...30 psi up to 0...200 psi

Wetted Parts
316L stainless steel and Inconel® 718 diaphragm

Case
304 stainless steel electro polished

Ingress Protection
IP 54

Accuracy
± 1.6 % of full span

Unique Features
High over pressure safe (depending on range)
Ranges > 36 psi suitable for vacuum typical of CIP or SIP cleaning
Electro polishing (wetted parts) optional

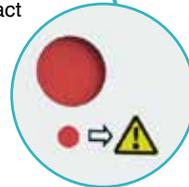
Data Sheet
PM 04.17



Status Display



Diaphragm Element Intact



Diaphragm Element Defective

External Zero Adjustment
Setting Range ± 15°



- Mechanical pressure transmission without the use of a system fluid.
- Patented diaphragm monitoring system to emphasize highest safety requirements
- Red warning sign will indicate breach of first barrier
- Two barriers for secure separation of the process from the atmosphere
- Completely autoclavable, suitable for CIP and SIP
- Standard with external zero point adjustment (± 15°)



M932.3A, M933.3A

Diaphragm Seal Sanitary Gauge

- Case size: ■ 2.5" & 4"
- Pressure Ranges: ■ -30"Hg...0 up to 0...600 psi
- Wetted Parts: ■ 316L stainless steel electro polished
- Case: ■ 304 stainless steel electro polished
- Ingress Protection: ■ IP 65
- Accuracy: ■ $\pm 2/1/2$ % of full span (2.5") & ± 1.0 % (4")
- Unique Features: ■ Tri-Clamp® connections from 1" up to 4"
- Serial # and part # engraved in the gauge case
- Material ID & heat # engraved in seal body or case
- Food grade glycerin case filling optional (M933.3A)
- Data Sheet: ■ M93X.3A



PG43SA-S

Sanitary Gauge with Dry Diaphragm

- Case size: ■ 4"
- Pressure Ranges: ■ -30"Hg...30 psi up to 0...200 psi
- Wetted Parts: ■ 316L stainless steel electro polished
- Case: ■ 304 stainless steel electro polished
- Ingress Protection: ■ IP 54
- Accuracy: ■ ± 1.6 % of full span
- Unique Features: ■ Mechanical pressure transmission without fluid
- Standard with external zero adjustment ($\pm 15^\circ$)
- Large variety of sanitary connections available
- High overpressure safe up to 5x full scale value
- Data Sheet: ■ PM 04.16



M932.25, M933.25

Diaphragm Seal Sanitary Gauge

- Case size: ■ 2.5"
- Pressure Ranges: ■ -30"Hg...30 psi up to 0...600 psi
- Wetted Parts: ■ 316L stainless steel electro polished
- Case: ■ 304 stainless steel polished
- Ingress Protection: ■ IP 65
- Accuracy: ■ $\pm 2/1/2$ % of full span
- Unique Features: ■ Available with 3/4" or 1" Tri-Clamp® connection
- External zero adjustment optional
- Food grade glycerin case filling optional (M933.25)
- Integral cooling element (max. 300°F) optional
- Data Sheet: ■ M93X.25



SA-11

High Temperature Sanitary Pressure Transmitter

- Non-Linearity: ■ $\pm 0.25\%$ B.F.S.L. of full span
- Measuring Ranges: ■ 0...100 "WC up to 0...400 psi positive/negative gauge pressure and absolute pressure
- Output Signal: ■ 4...20 mA, 0...20 mA & 0...10 V
- Unique Features: ■ Large variety of sanitary connections available
- Fully welded version
- Suitable for media temp. up to 300°F (150°C)
- Suitable for CIP & SIP maintenance processes
- Available with NEMA 4X connection head (IP67)
- Data Sheet: ■ PE 81.80



S-10-3A

Sanitary Pressure Transmitter

- Non-Linearity: ■ $\pm 0.25\%$ B.F.S.L. of full span
- $\pm 0.50\%$ B.F.S.L. of full span for 3/4" Tri-Clamp®
- Measuring Ranges: ■ -30"Hg...0 up to 0...1000 psi, positive/negative gauge pressure and absolute pressure
- Output Signal: ■ 4...20 mA, DC 0...5 V, 0...10 V & other output signals
- Unique Features: ■ Compliant with 3A
- Available with 3/4", 1.5" or 2" Tri-Clamp® connection
- Suitable for CIP & SIP maintenance processes
- Data Sheet: ■ S-10-3A



TR21-C, TR21-A

Miniature Sanitary Temperature Transmitter

- Accuracy: ■ Class A per in accordance with IEC 60751
- Measuring Ranges: ■ -22...+300°F (-30...+150°C) and -22...+480°F (-30...+250°C)
- Output Signal: ■ 4...20 mA, Pt100 & Pt1000
- Unique Features: ■ Compact design, ideal for areas with space with limitations
- Intrinsically version optional available
- Large variety of sanitary connections available With thermowell (TR21-A)
- Data Sheet: ■ TE 60.28 (TR21-C), TE 60.26 (TR21-A)



Mechanical Temperature

Twin Temp Thermometers



Process Grade Bimetal Thermometer combined with a Temperature Sensor TT.30, TT.32, TT.50, TT.52

Case size
3" & 5"

Measuring Ranges
-100°F (-70°C) up to 550°F (260°C)

Stem Material
304 stainless steel

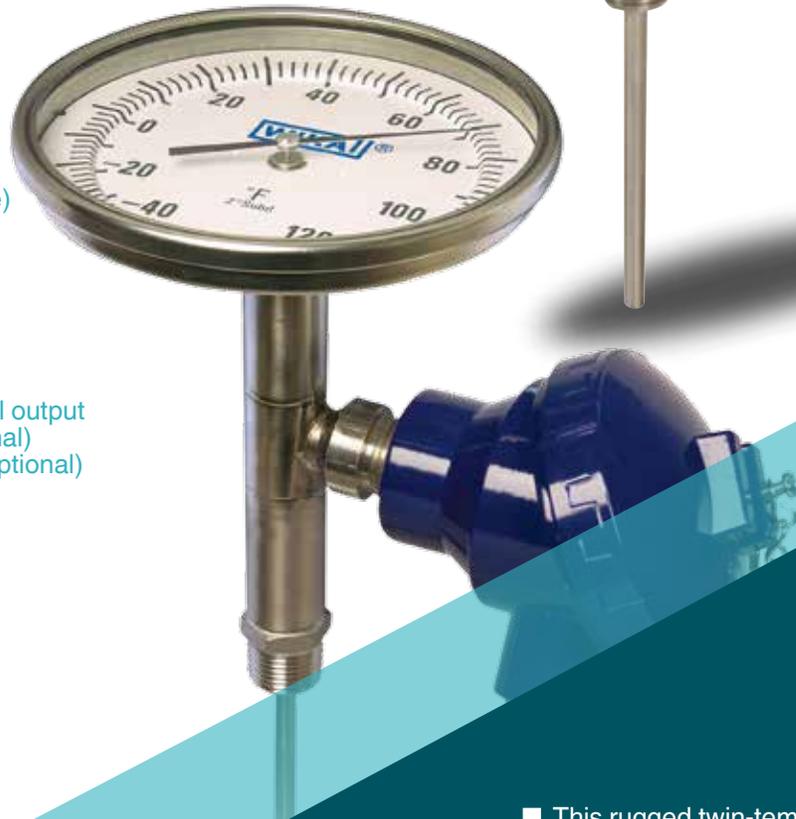
Case Material
304 stainless steel

Stem Length
2-1/2" up to 48" (Thermocouple)
4" up to 48" (RTD)
Bulb diameter 1/4"

Accuracy
± 1.0 % of full span

Unique Features
Thermocouple or RTD electrical output
Explosion proof housing (optional)
With 4...20 mA output signal (optional)

Data Sheet
TT.32/TT.52, TT.30 & TT.50



- This rugged twin-temp system features two independent sensors in one unit.
- Allows independent local and remote reading and data acquisition from one insertion point.
- Easy installation and interchangeable with any existing standard thermometer.
- Allows for remote trouble shooting or calibration without removing the instrument from the thermowell.

Mechanical Temperature

Bimetals, Vapor
& Gas Actuated
Thermometers



TI.20, TI.33, TI.34,
TI.53, TI.54

Industrial Grade Bimetal Thermometer

- Case size: ■ 2", 3" & 5"
- Measuring Ranges: ■ -100°F (-70°C) up to 1000°F (550°C)
- Stem Material: ■ 304 stainless steel
- Case Material: ■ 304 stainless steel
- Stem Length: ■ 2-1/2" up to 24"
- Accuracy: ■ ± 1.0 % of full span
- Unique Features: ■ Hermetically sealed per ASME B40.200
■ NEMA 4X (IP 66) weather protection
■ Guaranteed not to fog
- Data Sheet: ■ TI.20, TI.33, TI.34, TI.53, TI.54



TI.30, TI.31, TI.32,
TI.50, TI.51, TI.52

Process Grade Bimetal Thermometer

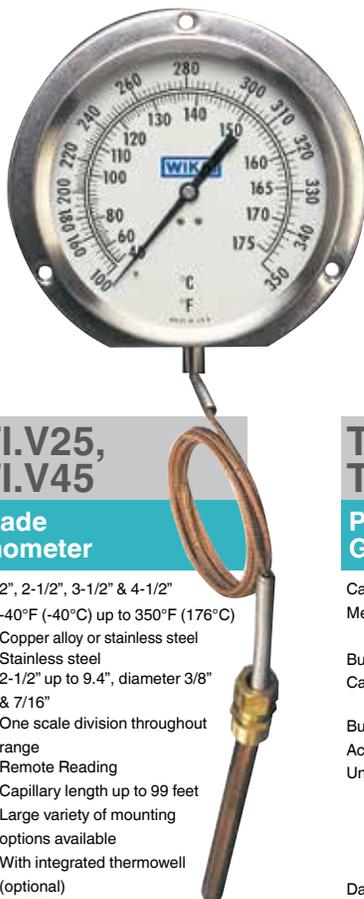
- Case size: ■ 3" & 5"
- Measuring Ranges: ■ -100°F (-70°C) up to 1000°F (550°C)
- Stem Material: ■ 304 stainless steel
- Case Material: ■ 304 stainless steel
- Stem Length: ■ 2-1/2" up to 72", bulb diameter 1/4"
- Accuracy: ■ ± 1.0 % of full span
- Unique Features: ■ External zero adjustment
■ NEMA 4X (IP 66) weather protection
■ Dampened Movement (optional)
■ InSight™ dial (optional)
■ Silicone case filling (optional)
■ 316 stainless steel stem material (optional)
- Data Sheet: ■ TI.30, TI.31, TI.32, TI.50, TI.51, TI.52



TI.RD50

Solar Powered Digital Gas Thermometer

- Case size: ■ 5"
- Measuring Ranges: ■ -50°F... 300°F (-45°C...150°C)
■ Switchable from °F to °C
- Stem Material: ■ 316 stainless steel
- Case Material: ■ 304 stainless steel
- Stem Length: ■ 2-1/2" up to 12"
- Accuracy: ■ ± 0.5 % of full span
- Unique Features: ■ Adjustable angle
■ High Accuracy
■ Large 1/2" LCD display
■ Low light level required (10 lux/1 foot candle)
■ With external recalibration potentiometer
- Data Sheet: ■ TI.RD50



TI.V20, TI.V25,
TI.V35, TI.V45

Industrial Grade Vapor Thermometer

- Case size: ■ 2", 2-1/2", 3-1/2" & 4-1/2"
- Measuring Ranges: ■ -40°F (-40°C) up to 350°F (176°C)
- Bulb Material: ■ Copper alloy or stainless steel
- Case Material: ■ Stainless steel
- Bulb Length: ■ 2-1/2" up to 9.4", diameter 3/8" & 7/16"
- Accuracy: ■ One scale division throughout range
- Unique Features: ■ Remote Reading
■ Capillary length up to 99 feet
■ Large variety of mounting options available
■ With integrated thermowell (optional)
- Data Sheet: ■ TI.VXX



TI.R45,
TI.R60

Process Grade Gas Actuated Thermometer

- Case size: ■ 4-1/2" & 6"
- Measuring Ranges: ■ -320°F (-200°C) up to 1200°F (650°C)
- Bulb Material: ■ 316 stainless steel
- Case Material: ■ Stainless steel, aluminum or phenolic (turret style)
- Bulb Length: ■ 3/8" diameter x 3"
- Accuracy: ■ ± 1.0 % of full span
- Unique Features: ■ Remote reading or adjustable angle
■ 316SS capillary length up to 80 feet
■ Large variety of mounting options available
■ With integrated thermowell (optional)
- Data Sheet: ■ TI.RXX

Electrical Temperature



TC10-2

Spring Loaded Thermocouple Assembly

- Sensor Element: ■ Type J, K, E, T
- Measuring Ranges: ■ -328°F... 2300°F (-200°C up to 1260°C)
- Junction: ■ Grounded/Ungrounded, Single/Dual
- Probe Diameter: ■ 1/4" or 6 mm
- Sheath Material: ■ 316 stainless steel, Inconel 600
- Connection Head: ■ Aluminum, 1/2"NPT x Conduit 3/4"NPT
- Unique Features: ■ Designed to be mounted in a thermowell
- Data Sheet: ■ TC10-2



TC15-2

Remote Mount Thermocouple Assembly, Fixed or Spring Loaded

- Sensor Element: ■ Type K, J, T, E
- Measuring Ranges: ■ -328°F... 2300°F (-200°C up to 1260°C)
- Junction: ■ Grounded/Ungrounded, Single/Dual
- Probe Diameter: ■ 1/4" or 6 mm
- Sheath Material: ■ 316 stainless steel, Inconel 600
- Connection Head: ■ Aluminum, 1/2"NPT x Conduit 3/4"NPT
- Lead length: ■ Up to 36"
- Unique Features: ■ To be used with thermowell or direct
- Data Sheet: ■ TC15-2

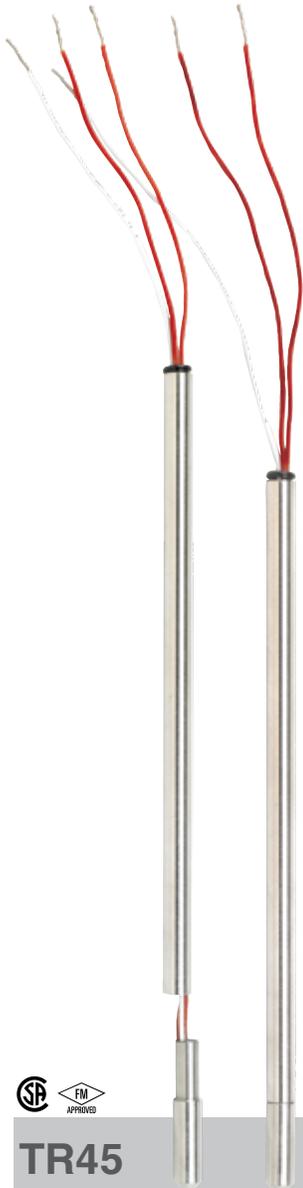


TC45

Cut to Length Thermocouple Sensor

- Sensor Element: ■ Type K, J, T, E
- Measuring Ranges: ■ -58°F... 842°F (-50°C up to 450°C), depending on sheath insulation
- Termination: ■ Stripped leads
- Junction: ■ Grounded/Ungrounded, Single
- Probe Diameter: ■ 3/16" & 1/4" and 4 & 6 mm
- Sheath Material: ■ 316 stainless steel
- Unique Features: ■ Fast delivery essential during downtime and low cost solution
- Data Sheet: ■ TC45

Electrical Temperature



TR45

Cut to Length RTD Sensor

- Sensor Element: ■ Pt100,
 Measuring Ranges: ■ -58°F... 842°F (-50°C up to 450°C),
 Termination: ■ Stripped leads
 Junction: ■ Grounded/Ungrounded, Single
 Probe Diameter: ■ 3/16" & 1/4" and 4 & 6 mm
 Sheath Material: ■ 316 stainless steel
 Unique Features: ■ Fast delivery essential during downtime and low cost solution
 Data Sheet: ■ TR45



TR10-2

Spring Loaded RTD Assembly

- Sensor Element: ■ Pt10, Pt100, Pt1000 multi-point available
 Measuring Ranges: ■ -328°F... 1382°F (-200°C up to 750°C)
 Junction: ■ Grounded/Ungrounded, Single/Dual
 Wiring Configuration: ■ 2, 3, and 4 wire
 Probe Diameter: ■ 1/4" or 6 mm
 Sheath Material: ■ 316 stainless steel, Inconel 600
 Connection Head: ■ Aluminum, 1/2"NPT x Conduit 3/4"NPT
 Unique Features: ■ Designed to be mounted in a thermowell
 Data Sheet: ■ TR10-2



T24.10

Analogue Temperature Transmitter, for Pt100 Sensors, Head Mounting

- Accuracy: ■ ±0.2% per DIN EN 60770, 23°C ±5 K
 Measuring Ranges: ■ -238°F... +1562°F (-150°C up to +850°C)
 Input: ■ Pt100, 2-wire or 3-wire
 Output Signal: ■ 4...20 mA
 Unique Features: ■ PC configurable
 ■ Remotely configurable from control room via the current loop.
 Data Sheet: ■ TE 24.01



TR15-2

Remote Mount RTD Assembly, Fixed or Spring Loaded

- Sensor Element: ■ Pt10, Pt100, Pt1000 multi-point available
 Measuring Ranges: ■ -328°F... 1382°F (-200°C up to 750°C)
 Junction: ■ Grounded/Ungrounded, Single/Dual
 Probe Diameter: ■ 1/4" or 6 mm
 Sheath Material: ■ 316 stainless steel, Inconel 600
 Connection Head: ■ Aluminum, 1/2"NPT x Conduit 3/4"NPT
 Lead length: ■ Up to 36"
 Unique Features: ■ To be used with thermowell or direct
 Data Sheet: ■ TR15-2



T32.1S, T32.3S

Digital Temperature Transmitter with HART® Protocol

- Accuracy: ■ <0.1%
 Measuring Ranges: ■ -454°F... +3308°F (-270°C up to +1820°C), depending on sensor device
 Input: ■ RTD, Thermocouples, Potentiometers
 Output Signal: ■ 4...20 mA, HART® protocol
 Unique Features: ■ Configurable with a variety of open configuration tools
 ■ Rail mount version available (T32.3S)

Thermowells



ScrutonWell® Design Option

Thermowell Form
Straight or stepped

Material
Various materials available,
depending on process conditions

Process Connection
Various threaded or flanged
process connection

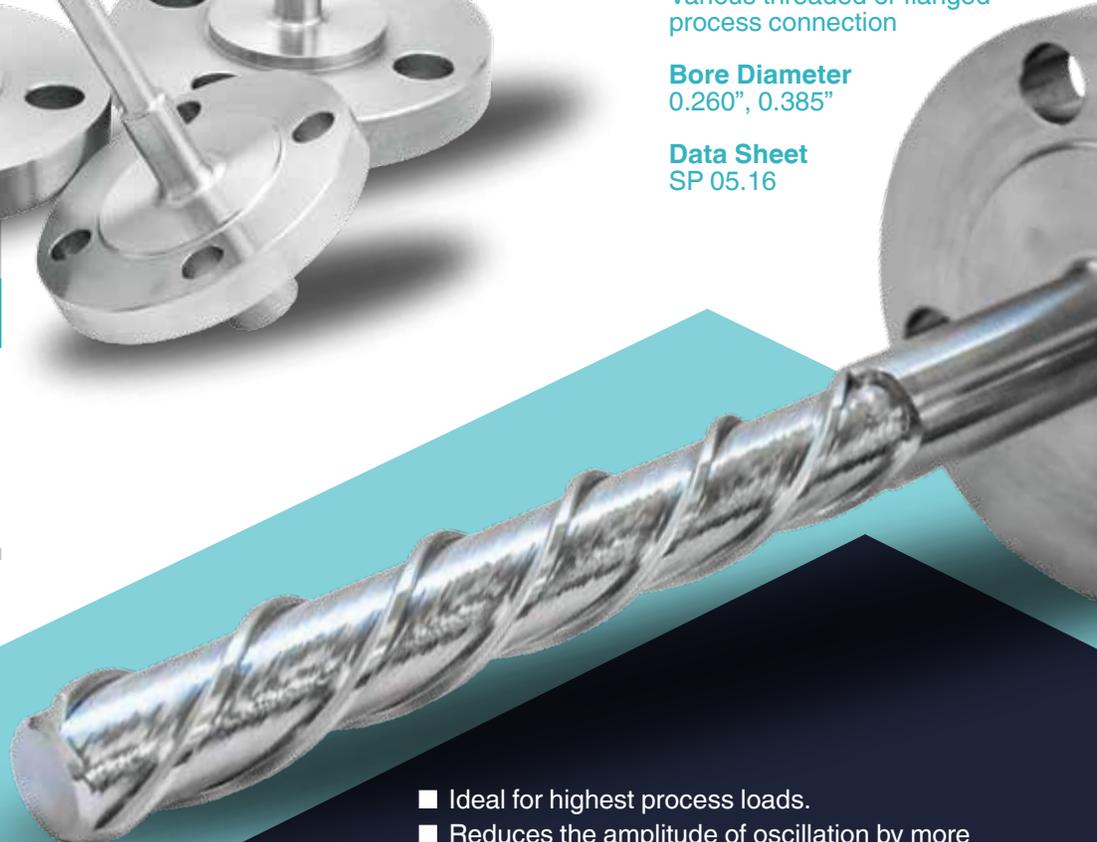
Bore Diameter
0.260", 0.385"

Data Sheet
SP 05.16

TW10

Flanged Type

Thermowell Form:	■ Tapered, straight or stepped
Flange Size:	■ 1" up to 4" per ASME B16.5
Flange Rating:	■ 150# up to 2500# RF or RTJ
Bore Diameter:	■ 0.260", 0.385"
Unique Features:	■ Full penetration weld standard ■ Large variety of flange & thermowell material
Data Sheet:	■ TW.FL/TW10



- Ideal for highest process loads.
- Reduces the amplitude of oscillation by more than 90% compared to a conventional well.
- Easy, fast and trouble-free installation without modifications to the measuring point.
- Eliminating the use of support collars.



TW15

Threaded Type (Solid Machined)

- Thermowell Form: ■ Tapered, straight or stepped
 Process Connection: ■ 1/2"NPTM, 3/4"NPTM or 1"NPTM
 Bore Diameter: ■ 0.260", 0.385"
 Unique Features: ■ Large variety of materials available
 Data Sheet: ■ TW.TH/TW15



TW20, TW25

Socket Weld & Weld-In Type (Solid Machined)

- Thermowell Form: ■ Tapered, straight or stepped
 Weld-In Diameter: ■ Up to 2" pipe size
 Bore Diameter: ■ 0.260", 0.385"
 Unique Features: ■ Large variety of materials available
 Data Sheet: ■ TW.SW/TW20, TW.WI/TW25



TW60

Sanitary Type (Solid Machined)

- Thermowell Form: ■ Straight or stepped
 Material: ■ 316L (1.4435) stainless steel
 Process Connection: ■ Wide variety of sanitary connections available
 Bore Diameter: ■ 0.260", 0.385"
 Unique Features: ■ Surface Finish $Ra \leq 25 \mu\text{in}$ ($Ra \leq 0.64 \mu\text{m}$) per ASME BPE, SF2
 ■ Electro polished surface finish (optional)
 Data Sheet: ■ TW 95.22



Helical coils break up the flow and thus impede the formation of a clearly defined Kármán vortex street



FLC-FL

Orifice Flange

Standards:	■ ISO 5167-2
Flange Material:	■ Carbon steel, ASTM A105, ASTM A350 LF2 & other
Pipe Size:	■ $\geq 2"$ (≥ 50 mm)
Beta Ratio $\beta = d/D$:	■ Depending on version
Accuracy:	■ $\pm 0.5 \dots 2.5\%$ of full scale flow rate
Unique Features:	■ Two 1/2"NPT threads in each flange standard ■ Wide range of materials available ■ Nominal size & pressure rating available in accordance with all relevant standards.
Data sheet:	■ FL 10.01

Orifice Flange Unions

Orifice flanges are intended for use instead of standard pipe flanges when an orifice plate must be installed.

Pairs of pressure tapings are machined into the orifice flange, making separate orifice carriers or tappings in the pipe wall unnecessary.



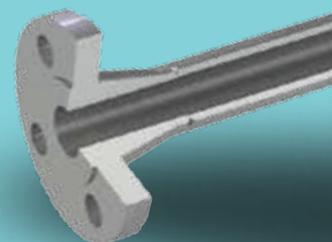
FLC-OP

Orifice Plate

Standards:	■ ISO 5167-2, ASME MFC3M
Material:	■ 316L SS, Hastelloy C276, Monel M400, Duplex & others
Pipe Size:	■ $\geq 2"$ (≥ 50 mm)
Beta Ratio $\beta = d/D$:	■ Depending on version
Accuracy:	■ $\pm 0.5 \dots 2.5\%$ of full scale flow rate
Unique Features:	■ Repeatability 0.1% of flow rate ■ Max. operating temperature up to 1472°F (800°C) ■ Max. working pressure up to 5800 psi (400 bar)
Data sheet:	■ FL 10.01

Orifice Plates

Orifice plates are the most economical and widely utilized primary flow elements in the world. Their ease of installation and range of applications makes them an excellent option for any industry.





FLC-RO-ST, FLC-RO-MS

Single-Step and Multi-Step Restriction Orifice

- Flange Material: ■ 304/304L & 316/316L stainless steel, Monel 400, Duplex, Super Duplex, Hastelloy C276 & other
- Unique Features: ■ Suitable for liquids, gases and steam
 ■ Multi-bore option to reduce noise level
 ■ Multi-step restriction orifices reduce the pressure by more than 50% of the inlet valve.
- Data sheet: ■ FL 20.01

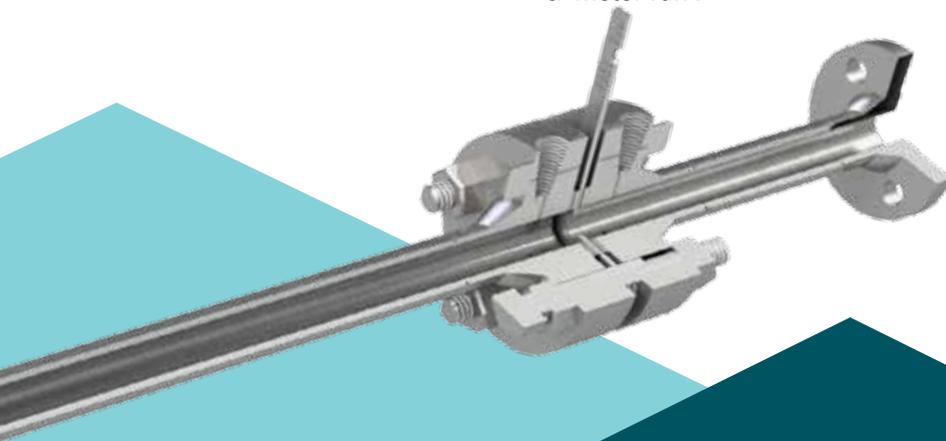
Restriction Orifices

A restriction orifice is used to achieve either a specified pressure drop or choked flow. Our technical department will produce the correct design for the restriction orifice, depending on customer requirements and flow conditions.

In high differential pressure drops, a change in phase or sonic issues can occur. The solution in these cases is to decrease the pressure in several steps, avoiding all the issued created by these factors. This solution is called a multi-step restriction orifice assembly.

Honed Meter Runs

To ensure high accuracy the primary flow element is supplied as an assembly incorporating the upstream and downstream pipe sections. This assembly is known as a 'meter run'.



FLC-MR

Meter Run

- Standards: ■ ISO 5167-2
- Flange Material: ■ Wide range of materials available
- Pipe Size: ■ 1/2"...1-1/2" (12...40 mm)
- Pressure Rating: ■ 300...2500 lbs.
- Beta Ratio $\beta = d/D$: ■ 0.2...0.75
- Accuracy: ■ $\pm 1...2\%$ of full scale flow rate
- Unique Features: ■ Suitable for liquid, gas & steam flow measurement
 ■ Repeatability of measurement 0.1%
 ■ Can be designed in accordance with the following standards: ISO5167-1:2003, ASME MFC-3M, AGA3 or ASME PTC 19.5 ASME MFC 14M
- Data sheet: ■ FL 10.02

WIKA Diaphragm Seal Express Lane

Unfortunately, unplanned shutdowns and failures happen, causing unexpected product needs to arise. Fortunately though, WIKA Instrument, LP is here to help.

WIKA's Express Lane program offers you ordering flexibility, when you need it. Using our almost 70 years of industry experience and instrumentation expertise, we have selected the top Diaphragm Seal products that customers need in a rush. These preselected items can now be ordered through WIKA's Express Lane program with 1-day, 2-day or 5-day lead time options.

How the Express Lane Program Works:

WIKA offers a standard 12 business days, minimum, lead time for all Diaphragm Seal products, while nonstandard products may require longer lead times based on the order and available capacity.

If you need your Diaphragm Seal order shipped in less than 12 business days, the WIKA Express Lane Program offers 3 convenient ordering options:

Express Lane Option	Express Lane Program Charge	Quantity Limit
5 Business Days*	MSRP	25 pieces
2 Business Days*	2X MSRP	5 pieces
1 Business Day*	3X MSRP	2 pieces

*WIKA reserves the right to decline customer requests based on existing capacity, order quantity and availability of materials. All lead times are subject to Diaphragm Seal customer service representative approval by written confirmation; lead times begin when written confirmation approval is issued. All lead times consider the manufacturing and production time only; WIKA is not responsible for shipping lead times. All orders must be placed no later than 2:00PM central time for next day shipment by 12:00PM. Saturday shipments are possible where service is available; Saturday shipments are possible for Monday delivery. All non-business days, company holidays and closings are excluded from lead times. Exceptions may be made on a case by case basis.

Contact the WIKA office at 1-888-WIKA-USA(945-2872) for more information or email DSExpress@wika.com

FAST Audit



An on-site FAST Audit is the first step in constructing a world-class instrumentation program. During an audit, FAST engineers visually inspect your population of mechanical pressure and temperature indicators, documenting failures as well as opportunities for improving reliability. FAST engineers then analyze the data to supply you with best practice recommendations for individual installations and your plant as a whole.

With this data in hand, FAST engineers will then be able to assess your plant's needs and streamline your gauge management process.

Tel. (855) 651-FAST (3278)
fast@wika.com · www.wika-fast.com



40%

of instruments in a typical processing plant have failed or are about to fail*

* Based on results from more than 250 WIKA instrument audits



For 70 years, WIKA has continuously advanced instrumentation for pressure, temperature, level, flow and force measurement. Our broad selection of standard and custom solutions, as well as services, work to support operational safety, productivity and profitability. A global leader in lean manufacturing, WIKA can be your reliable partner anywhere in the world.



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