



Distribution Product Digest | Standard Products

WIK A's Featured Products



Smart in sensing



Contents

Solutions and Services	3
Mechanical Pressure Measurement	4
Test Gauges	16
Calibration Equipment	17
Valves & Manifolds	18
Pressure Gauge Options	20
Pressure Gauge Accessories	22
Mechatronic Pressure Measurement	24
Electronic Pressure Measurement	29
Diaphragm Seals	36
Sanitary Solutions	39
Mechanical Temperature Measurement	42
Thermowells	44
Force	46



Solutions and Services for Pressure and Temperature Measurement

At WIKA USA, 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, flow, and force measurement solutions and services.

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

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: ■ $\pm 3/2/3\%$ 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: ■ $\pm 3/2/3\%$ 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: ■ $\pm 3/2/3\%$ of full span
 Unique features: ■ UL 252 & UL 404 approvals
 ■ Free of oil and grease
 ■ Other case materials (optional)
 Data Sheet: ■ 111.11

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 IP 65
Accuracy $\pm 2/1/2\%$ 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

Factory Liquid Filled



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: ■ $\pm 1.0\%$ of full span
- Unique Features: ■ Surface mounting flange (optional)
- Data Sheet: ■ 111.25



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: ■ $\pm 3/2/3\%$ 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: ■ $\pm 2/1/2\%$ of full span
- Unique Features: ■ Factory glycerin filled
- 100% case fill with FlexWindow option (2 1/2") only
- Easily adaptable with u-clamp bracket & front flange (optional)

Data Sheet: ■ 21X.53



FlexWindow™ Available Models

213.53 2 1/2" & 233.53/54/55 2 1/2"

- Made from clear silicone rubber
- High UV and chemical resistance, similar to glass
- No yellowing & high temperature resistance (> 300°F)
- Scratch and crack resistant, repels water

Advantages

- Built-in internal pressure compensation without the need of a vent plug for ranges ≤ 300 psi
- 100% case fill = Guaranteed no bubbles in vertical position!
- No reading impairment due to large bubbles
- Easy panel mounting due to missing lever plug
- Increased ingress protection IP66

Mechanical Pressure Measurement

NSF-61-G Approved Drinking Water Gauges

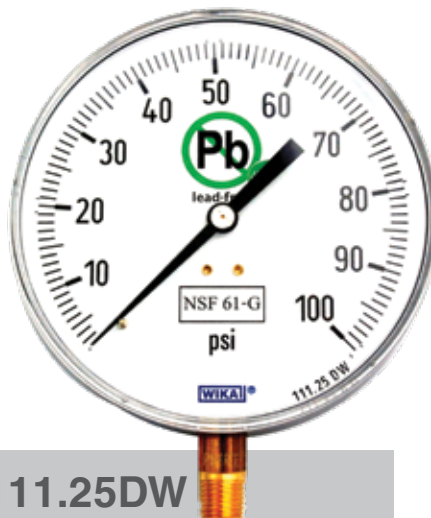


111.10DW, 111.12DW

Drinking Water Gauge, Lower Mount, Back Mount

- Case size: ■ 1.5" BM, 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



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: ■ IP 65
- 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: ■ $\pm 2\frac{1}{2}\%$ of full span (2" & 2.5")
■ $\pm 1\%$ of full span (4")
- Unique Features: ■ Field fillable
■ 100% case fill with FlexWindow option (2½") only
■ 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: ■ $\pm 2\frac{1}{2}\%$ of full span (2.5")
■ $\pm 1\%$ of full span (4")
- Unique Features: ■ Field fillable
■ 100% case fill with FlexWindow option (2½") only
■ 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: ■ $\pm 2\frac{1}{2}\%$ of full span
- Unique Features: ■ Case, ring & FF 316 stainless steel
■ Case factory filled with Glycerin
■ 100% case fill with FlexWindow option (2½") only
■ 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: ■ $\pm 2\frac{1}{2}\%$ of full span (2.5")
■ $\pm 1\%$ 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

US Process Type Gauges



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



Mechanical Pressure Measurement

Solid Front Safety Gauges



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: | ■ $\pm 2\frac{1}{2}\%$ of full span (2.5") |
| | ■ $\pm 1\%$ 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 |



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 |



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 |

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:	■ ± 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:	■ ± 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)
Case:	■ Black thermoplastic (POCAN)
Ingress Protection:	■ IP 54
Accuracy:	■ ± 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...700 InWC (4")
■ 0...16 InWC to 0...1600 InWC (6")
- Wetted Parts: ■ Brass, stainless steel, NBR (712.15)
■ Stainless steel, NBR (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, 732.51)
- 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:	■ $\pm 2/1/2$ % 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:	■ $\pm 2/1/2$ % 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: | <ul style="list-style-type: none"> ■ 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: | <ul style="list-style-type: none"> ■ Mirror band dial ■ Micro-adjustable knife-edge pointer ■ Zipped carrying pouch |
| 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: | <ul style="list-style-type: none"> ■ 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: | <ul style="list-style-type: none"> ■ 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: | <ul style="list-style-type: none"> ■ 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: | <ul style="list-style-type: none"> ■ Front side external zero-adjustment ■ Mirror band dial ■ Knife edge pointer ■ Calibration certificate per EN 10204-3.1 |
| Data Sheet: | ■ 342.11 |

Calibration Equipment



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...150,000 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 ranges 0...1.5 psi
■ ± 0.15 % of full span for ranges 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

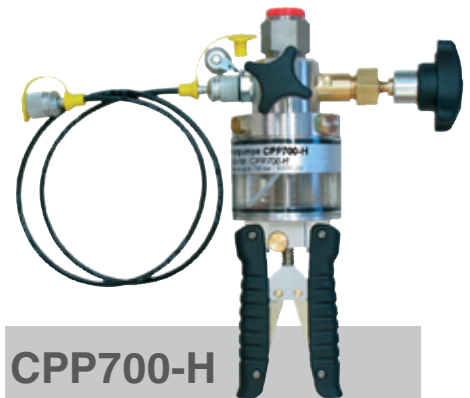
- Dimension: ■ 6.4 x 3.4 x 1.7 inches (163 x 86 x 42 mm)
- Display: ■ 4-1/2 digits depending on range
- Pressure Ranges: ■ 0...0.4 psi up to 0...14,500 bar
- Wetted Parts: ■ 316 Stainless steel (transmitter)
- Case: ■ Impact resistant ABS
- Ingress Protection: ■ IP 65 & IP 67
- Accuracy: ■ ± 0.2 % of 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

Valves & Manifolds



IV10, IV11

Needle Valve and Multiport Valve

Sizes: ■ 1/4" to 1"
 Pressure Ranges: ■ 6000 - 10000psi
 Connections: ■ FNPT, MNPT, Compression, Socket/Butt weld
 Materials: ■ 316st/st - Exotic alloys
 Packing Material: ■ PTFE / Graphoil packing
 Data Sheet: ■ AC 09.22



IV20, IV21

Block-And-Bleed Valve

Sizes: ■ 1/4" to 1"
 Pressure Ranges: ■ 6000, 10000psi
 Connections: ■ FNPT, MNPT, Compression
 Materials: ■ 316st/st - Exotic Alloys
 Packing Material: ■ PTFE / Graphoil Packing
 Data Sheet: ■ AC 09.19



IV30, IV31, IV50, IV51

Valve Manifold

Sizes: ■ 1/4" , 1/2"
 Pressure Ranges: ■ 6000, 10000psi
 Connections: ■ Remote mount, Direct flanged mount
 Materials: ■ 316st/st - Exotic alloys
 Packing Material: ■ PTFE / Graphoil packing
 Centers: ■ 37mm & 54mm centers
 Data Sheet: ■ AC 90.23



Valves & Manifolds



IVH

Instrument Ball Valve

Sizes: ■ 1/4" to 1"
Connections: ■ FNPT, MNPT, BSP, Compression
Materials: ■ 316st/st - Exotic Alloys
Pressure Ranges: ■ 6000, 10000psi
Seat/Seal Material: ■ PTFE / PEEK seats and seals



IVM

Monoflange

Sizes: ■ 1/4" to 3"
Pressure Class: ■ Class 150 to 2500
Connections: ■ RF - RTJ
Materials: ■ 316st/st, LF2, A105 and exotic alloys
Packing Material: ■ PTFE / Graphoil packing
Data Sheet: ■ AC 09.17



IVB

DBB Valve

Sizes: ■ 1/4" to 2"
Bore Sizes: ■ 10mm bore
Pressure Class: ■ Class 150 to 2500
Materials: ■ 316st/st, LF2, A105, Exotic alloys
Seat/Seal Material: ■ PTFE / PEEK / Graphoil seats and seals



Pressure Gauge Options

Dampened Movement

Availability	Most industrial and process type pressure gauges
Material	Brass and stainless steel
Application	For severe pulsations we recommend to include a restrictor



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

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 O ₂ or chlorine applications
Application	For severe vibrations and pulsations to dampen and lubricate internal parts For severe pulsations we recommend to include a restrictor in combination with the case filling



Pressure Gauge Options



Gauge Jacket XSEL® Process Gauge

Case Size	4½"
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

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



Restrictors

Availability	Most gauges with male process connection
Material	Brass, 316 stainless steel & Monel
Application	For severe pulsations and pressure spikes



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



Overpressure Protector

910.13

Application To protect pressure gauge from damaging pressure spikes and surges

Material 316 stainless steel

Data Sheet 910.13

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



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



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



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 304 stainless steel

Data Sheet 910.15.400



Siphons

910.15.100, 910.15.200

Application For the protection of pressure gauges in high temperature applications

Material brass, steel & 316 stainless steel

Data Sheet 910.15

IntelliGAUGES – Pressure Gauges with Electrical Output Signal

The multi-functional intelliGAUGES 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 is 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



PGT23.100/160

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



Mechatronic Pressure Measurement



PGT43.100/160

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: ■ $\pm 1.6\%$ 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



DPGT43.100/160

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: ■ $\pm 1.6\%$ 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.100/160

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: ■ $\pm 1.6\%$ 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





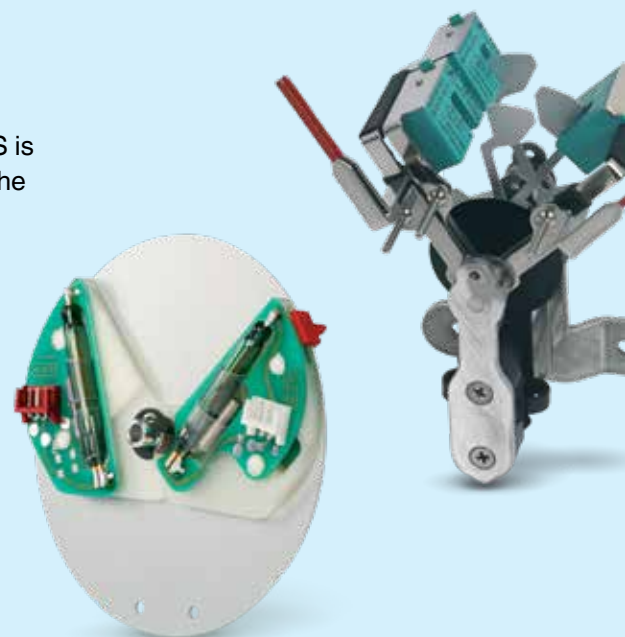
SwitchGAUGES – Pressure Gauges with Switch Output

Control systems are becoming more important in industrial and process applications. Critical applications often require an alarm and the capability to open or close an electrical circuit. The WIKA USA switchGAUGE combines the local indication of a mechanical pressure gauge with the functions of a mechanical switch. One of the advantages of most WIKA USA switchGAUGES 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: ■ $\pm 2.5\%$ of full span
- Unique Feature: ■ Up to 2 contacts available
- Data Sheet: ■ PV 21.01



PGS21

Utility Grade, Fixed Set Point

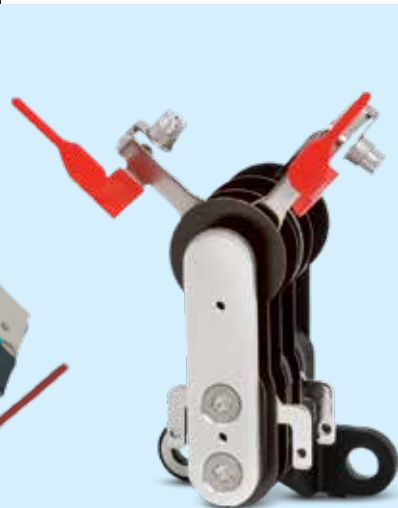
- Case size: ■ 1.5, 2" & 2.5"
- Pressure Ranges: ■ 0...60 psi up to 0...6000 psi
- Wetted Parts: ■ Copper alloy
- Case: ■ 304 stainless steel
- Ingress Protection: ■ IP 65
- Switch Type: ■ Magnetic snap-action
- Accuracy: ■ $\pm 2.5\%$ of full span
- Unique Features: ■ Fixed, factory set switch point
- 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: ■ $\pm 1.6\%$ of full span
- Unique Feature: ■ Solid front safety design
- Data Sheet: ■ PV 22.03



PGS23.100/160

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: ■ $\pm 1.0\%$ of full span
- Unique Feature: ■ Solid front safety design (optional)
- Silicone case filling (optional)
- Data Sheet: ■ PV 22.02



PGS43.100/160

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: ■ $\pm 1.6\%$ of full span
- Unique Features: ■ Solid front safety design (optional)
- Data Sheet: ■ PV 24.03

Mechatronic Pressure Measurement



DPGS43.100/160

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: | ■ $\pm 1.6\%$ of full span |
| Unique Features: | ■ Max working pressure 360 psi, depending on range |
| | ■ Solid front safety design (optional) |
| Data Sheet: | ■ PV 27.05 |



DPGS43HP.100/160

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: | ■ $\pm 1.6\%$ 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 |



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 |

Electronic Pressure Measurement

General Purpose Industrial Applications



SP CE ENE A

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



c UL US ENE 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 ENE

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
Positive/negative gauge pressure and absolute pressure
- Output Signal** 4...20 mA, DC 0...5 V, 0...10 V & other current, voltage & ratiometric 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.
- Data Sheet** PE 81.61

c UL US LISTED CE ENE

Electronic Pressure Measurement

General Purpose Industrial Applications



UL US ENE CE

PSD-4

Pressure Transmitters with Integral LED Display and Switch Options

- Non-Linearity: ■ $\pm 0.25\%$ B.F.S.L. of full span
- Measuring Ranges: ■ 0...15 psi up to 0...8000 psi
- Positive/negative gauge pressure and absolute pressure
- Output Signal: ■ Dual PNP/NPN switch output & 4-20mA or 0-10V
- Unique Features: ■ User selectable NPN or PNP switch type, and optional user selectable 4-20mA or 0-10V output.
- Over 320° rotatable case and display
- I/O link compatible
- Optional available with flush diaphragm
- Data Sheet: ■ PE 81.86



ENE CE UL US

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
- Dual NPN switch output & 4...20 mA
- Probe Length: ■ 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



ENE CE UL US

FSD-4

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 (28.34")
- Output Signal: ■ Dual PNP switch output & 4...20 mA or DC 0...10V
- Dual NPN switch output & 4...20 mA
- Sensor Length: ■ 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



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



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: ■ 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



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
- 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



LF-1

High Performance Submersible Level Transmitter

- Non-Linearity: ■ $\pm 0.5\%$ B.F.S.L. of full span
- Measuring Ranges: ■ 0...50 inWC up to 0...100 psi positive pressure, absolute ranges available as well
- Output Signal: ■ 4...20mA, HART, 0.1...2.5V low power
- Ingress Protection: ■ IP 68 for permanent submersion up to 325 feet (100 m) water column
- Unique Features: ■ Optional Explosion protection in accordance with FM, CSA, IECEx and ATEX
- Optional Hastelloy body
- Optional lightning protection
- Data Sheet: ■ LM 40.04



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, LF-1

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.

Data Sheet

LevelGuard



EMC 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

Electronic Pressure Measurement

Hazardous Area Applications



E-10, E-11

Explosion Proof Pressure Transmitters

- Non-Linearity: ■ $\pm 0.25\%$ B.F.S.L. of full span
- Measuring Ranges: ■ 0...5 psi up to 0...15,000 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

Intrinsically Safe Pressure Transmitters

- Non-Linearity: ■ $\pm 0.25\%$ B.F.S.L. of full span
- Measuring Ranges: ■ 0...50inWC up to 0...15,000 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...50inWC up to 0...15,000 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-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

Certified Safety & Reliability

Quality measurement technologies are essential for safe, reliable operations.

WIKA USA's pressure, temperature, level, flow, and force solutions have withstood rigorous testing of national and international authorizing bodies, and have earned a wide range of approvals and certifications worldwide.



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.

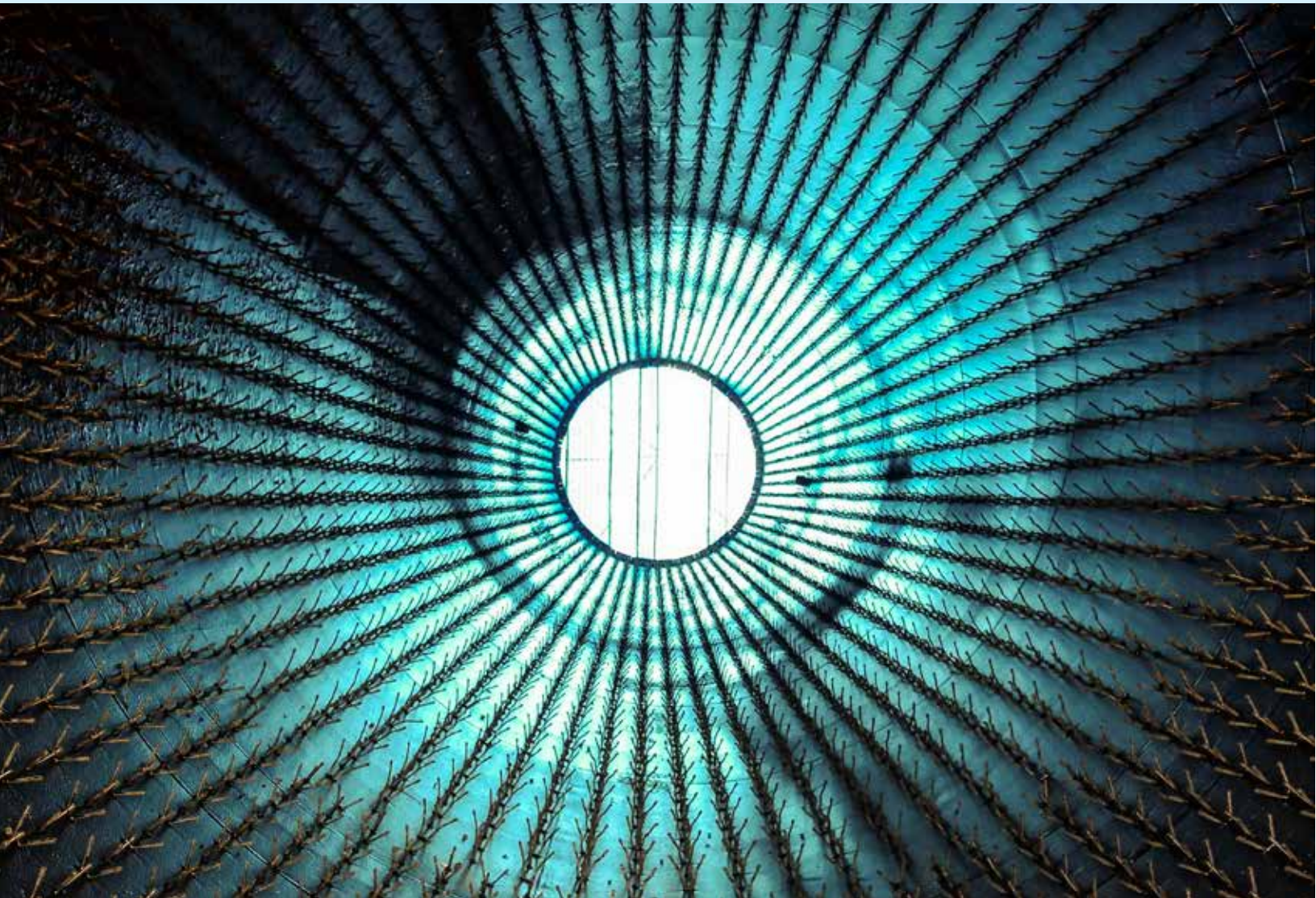
Diaphragm Seals

- 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 USA Combines Expertise and Technology to Provide Custom, Quality Systems

WIKA USA's Lean manufacturing-focused factory produces custom solutions for diaphragm seal systems.

WIKA USA'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.





All Welded System AWS M93X.D1

Ranges	-30"HG up to 5000 psi
Case Size	4½"
Case	Fiberglass reinforced thermoplastic
Wetted Parts	316L, HC276, Monel
Process	½" NPT-M connection
Accuracy	± 0.5 % of span
Options	Consult factory
Data Sheet	M93X.D1



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



Status Display



Diaphragm Element Intact



Diaphragm Element Defective



External Zero Adjustment
Setting Range $\pm 15^\circ$



Sanitary Diaphragm Pressure Gauge with Integrated Diaphragm Monitoring and Double Containment 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 safety (depending on range) Ranges > 36 psi suitable for vacuum typical of CIP or SIP cleaning Electropolishing per ASME BPE SF4 optional (wetted parts) optional
Data Sheet	PM 04.17

- 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 diaphragm element.
- Two barriers for secure separation of the process from the atmosphere.
- Completely autoclavable, suitable for CIP and SIP.
- Standard with external zero point adjustment ($\pm 15^\circ$).



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: ■ $\pm 2\frac{1}{2}\%$ of full span (2.5") & $\pm 1.0\%$ (4")
- Unique Features: ■ Available with liquid filled case or dry case
- 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: ■ $\pm 1.6\%$ of full span
- Unique Features: ■ Mechanical pressure transmission without internal transmission fluid
- Standard with external zero adjustment ($\pm 15^\circ$)
- Visible Leak Monitoring included
- 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: ■ $\pm 2\frac{1}{2}\%$ 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



Sanitary Bimetal Thermometer

Tri-Clamp® process connection

TG58SA

Unique Features

- Sanitary Tri-Clamp® process connection 3/4" through 2" in accordance with ASME BPE (Hygienic clamp)
- All stainless steel construction
- 316L stainless steel process wetted surfaces, $R_a \leq 20 \mu\text{m}$ ($R_a \leq 0.51 \mu\text{m}$), in accordance with ASME BPE designation SF1
- 3-A approved

Data Sheet TM 53.02



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



PSA-31

Pressure Switch with Display

Accuracy: ■ $< 1\%$ of span

Measuring Ranges:

- 0 ... 15 to 0 ... 300 psi relative
- 0 ... 15 to 0 ... 300 psi absolute
- -30 ... 0 inHg to -30 in HG ... 300 psi vacuum

Switching output: ■ 1 or 2 (PNP or NPN)

Analog output: ■ 4 ... 20 mA

(optional): ■ DC 0 ... 10 V (optional)

Data Sheet: ■ PE81.85



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 Measurement

Twin Temp Thermometers



Process Grade Bimetal Thermometer Combined with a Temperature Sensor

TT.30, TT.32, TT.50, TT.52

Ranges	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 Measurement

Bimetals, Vapor, & Gas Actuated Thermometers



TG53

Process Grade Bimetal Thermometer

- Case size: ■ 3", 4", 5" & 6"
- Measuring Ranges: ■ -100°F (-70°C) up to 1000°F (550°C)
- Stem Material: ■ 304 stainless steel
- Case Material: ■ 304 stainless steel
- Stem Length: ■ 2½" to 114"
- Stem Diameter: ■ ¼" & ½"
- 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 wetted parts (optional)
■ All 316 stainless steel model (optional)
- Data Sheet: ■ TG53



TG51

Process Grade Bimetal Thermometer

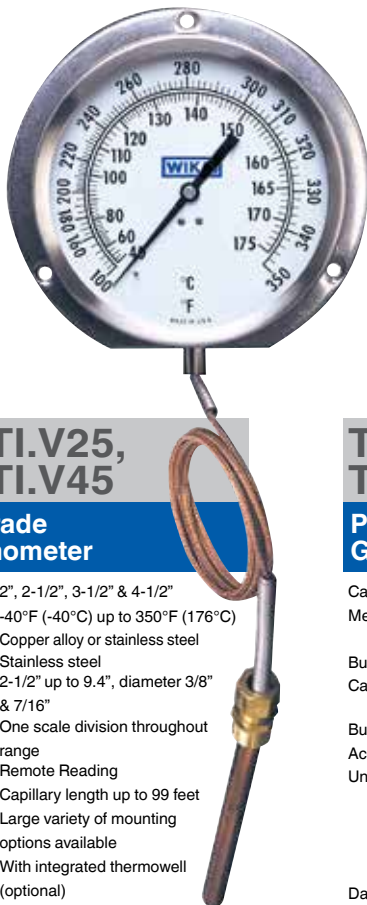
- Case size: ■ 3" & 5"
- Measuring Ranges: ■ -100°F (-70°C) up to 1000°F (550°C)
- Stem Material: ■ 304 stainless steel
- Case Material: ■ 304 stainless steel
- Stem Length: ■ 2½" to 24"
- Stem Diameter: ■ ¼"
- Accuracy: ■ ± 1.0 % of full span
- Unique Features: ■ NEMA 4X (IP 66) weather protection
■ ¼" & ½" process connection
- Data Sheet: ■ TG51



TI.20

Industrial Grade Bimetal Thermometer

- Case size: ■ 2"
- Measuring Ranges: ■ -100°F (-70°C) up to 1000°F (550°C)
- Stem Material: ■ 304 stainless steel
- Case Material: ■ 304 stainless steel
- Stem Length: ■ 2½" up to 24"
- Stem Diameter: ■ ¼"
- Accuracy: ■ ± 1.0 % of full span
- Unique Features: ■ NEMA 4X (IP66) weather protection
■ External reset
■ ¼" back mount (CBM) process connection
■ Guaranteed no to fog
■ NSF approval available
- Data Sheet: ■ TI.20



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



TI.RD50

Light Powered Digital Bimetal Thermometer

- Case size: ■ 5"
- Measuring Ranges: ■ -50°F... 300°F (-45°C...150°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

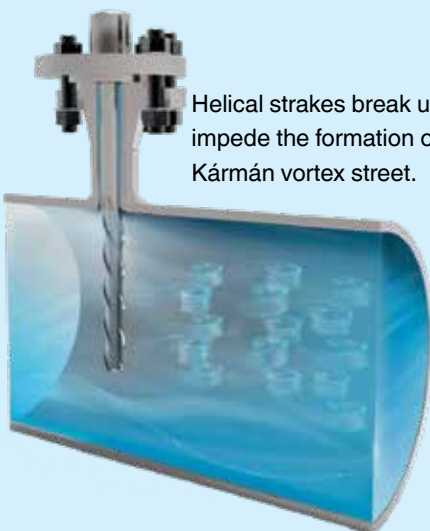
Thermowells



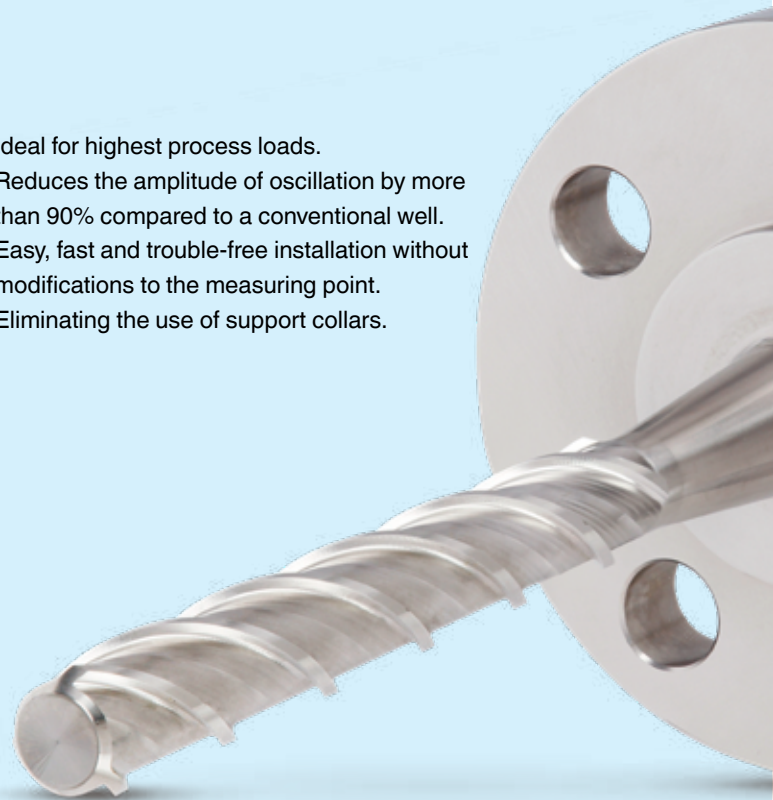
ScrutonWell® Design Option

Thermowell Form	Engineered Helical Strake
Material	Various threaded, flanged or Vanstoneprocess connection
Process Connection	Various threaded or flanged process connection
Bore Diameter	0.260", 0.385", others
Data Sheet	SP 05.16

- 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.



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



Thermowells



TW15

Threaded Type (Solid Machined)

Thermowell Form: ■ Tapered, straight or stepped
 Process Connection: ■ 1/2"NPT, 3/4"NPT or 1"NPT
 Bore Diameter: ■ 0.260", 0.385", others
 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", others
 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", others
 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



TW10

Flanged Type

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

Force Measurement



F2221

Miniature Tension/Compression

Load Range:	■ 0...1000 g to 0...10000 lbs.
Output:	■ 1.5 mV/V (to 1000 g) ■ 2 mV/V (>5 lbs.)
Size:	■ 0.75" to 1.38" Diameter
Accuracy:	■ ±0.25% Combined
Operation:	■ Tension/Compression
Construction:	■ Welded Stainless Steel



F1222

Subminiature 'Button' Load Cell

Load Range:	■ 0...50 g to 0...1000 lbs.
Output:	■ 2 mV/V ■ 0.38" to 0.75" Diameter
Size:	■ ±1.00% Linearity
Accuracy:	■ ±0.50% Hysteresis
Operation:	■ Compression Only
Options:	■ Overload Stops Available



F2222

Low Profile Pancake Load Cell

Load Range:	■ 0...5 lbs. to 0...500000 lbs.
Output:	■ Voltage or current
Size:	■ 2.50" to 14" Diameter
Accuracy: (>50lbs.)	■ ±0.10% Linearity ■ ±0.08% Hysteresis
Operation:	■ Tension/Compression
Construction:	■ Welded Stainless Steel

Force Measurement



F9870

Pump-off Control Polished Rod Load Cell

Load Range:	■ 0...30,000 & 0...50,000 lbs
Output:	■ 2 mV/V
Size:	■ 4"H, 3"W, 7"L
Accuracy: (>50lbs.)	■ $\pm 0.50\%$ FSO Combined
Operation:	■ Compression
Construction:	■ Cast Steel
Feature:	■ Industry-Standard Footprint



F5301 & F53C1

Industrial Load Pin

Load Range:	■ 0...1100 lbs. to 0...45000 lbs.
Output:	■ Voltage or current
Size:	■ 20mm to 70mm Diameter
Accuracy:	■ $\pm 0.2\%$ Linearity
	■ $\pm 0.20\%$ Hysteresis
Element:	■ Thin Film Technology
Construction:	■ Welded Stainless Steel
Feature:	■ ATEX Approval



F2226

Rod End, Male/Male Load Cell

Load Range:	■ 0...2000 lbs. to 0...750000 lbs.
Output:	■ Voltage or current
Size:	■ 1.50" to 6.63" Diameter
Accuracy:	■ $\pm 0.05\%$ Repeatability
Operation:	■ Tension/Compression
Construction:	■ Welded Stainless Steel
Feature:	■ Hermetically Sealed

WIK A worldwide

Europe

Austria

WIK A Messgerätevertrieb
Ursula Wiegand GmbH & Co. KG
Tel. +43 1 8691631
info@wika.at / www.wika.at

Benelux

WIK A Benelux
Tel. +31 475 535500
info@wika.nl / www.wika.nl

Bulgaria

WIK A Bulgaria EOOD
Tel. +359 2 82138-10
info@wika.bg / www.wika.bg

Croatia

WIK A Croatia d.o.o.
Tel. +385 1 6531-034
info@wika.hr / www.wika.hr

Denmark

WIK A Danmark A/S
Tel. +45 4581 9600
info@wika.as / www.wika.as

Finland

WIK A Finland Oy
Tel. +358 9 682492-0
info@wika.fi / www.wika.fi

France

WIK A Instruments s.a.r.l.
Tel. +33 1 71 68 10 00
info@wika.fr / www.wika.fr

Germany

WIK A Alexander Wiegand SE & Co. KG
Tel. +49 9372 132-0
info@wika.de / www.wika.de

Ireland

WIK A Instruments Ireland Limited
Tel. +353 86 1449 360
info@wika.ie / www.wika.co.uk

Italy

WIK A Italia S.r.l. & C. S.a.s.
Tel. +39 02 93861-1
info@wika.it / www.wika.it

Poland

WIK A Polska spółka z ograniczoną
odpowiedzialnością sp. k.
Tel. +48 54 230110-0
info@wikapolska.pl
www.wikapolska.pl

Romania

WIK A Instruments Romania S.R.L.
Tel. +40 21 4048327
info@wika.ro / www.wika.ro

Russia

AO "WIK A MERA"
Tel. +7 495-648018-0
info@wika.ru / www.wika.ru

Serbia

WIK A Merna Tehnika d.o.o.
Tel. +381 11 2763722
info@wika.rs / www.wika.rs

Spain

Instrumentos WIK A S.A.U.
Tel. +34 933 9386-30
info@wika.es / www.wika.es

Switzerland

WIK A Schweiz AG
Tel. +41 41 91972-72
info@wika.ch / www.wika.ch

Türkiye

WIK A Instruments
Endüstriyel Ölçüm Cihazları Tic. Ltd. Şti.
Tel. +90 216 41590-66
info@wika.com.tr
www.wika.com.tr

Ukraine

TOV WIK A Prylad
Tel. +38 044 496 83 80
info@wika.ua / www.wika.ua

United Kingdom

WIK A Instruments Ltd
Tel. +44 1737 644-008
info@wika.co.uk / www.wika.co.uk

North America

Canada

WIK A Instruments Ltd.
Tel. +1 780 4637035
info@wika.ca / www.wika.ca

USA

WIK A Instrument, LP
Tel. +1 770 5138200
info@wika.com / www.wika.us

Gayesco-WIK A USA, LP
Tel. +1 713 4750022
info@wika.houston.com
www.wika.us

Mensor Corporation
Tel. +1 512 3964200
sales@mensor.com
www.mensor.com

Latin America

Argentina

WIK A Argentina S.A.
Tel. +54 11 5442 0000
ventas@wika.com.ar
www.wika.com.ar

Brazil

WIK A do Brasil Ind. e Com. Ltda.
Tel. +55 15 3459-9700
ventas@wika.com.br
www.wika.com.br

Chile

WIK A Chile S.p.A.
Tel. +56 9 4279 0308
info@wika.cl / www.wika.cl

Colombia

Instrumentos WIK A Colombia S.A.S.
Tel. +57 601 7021347
info@wika.co / www.wika.co

Mexico

Instrumentos WIK A Mexico S.A. de C.V.
Tel. +52 55 50205300
ventas@wika.com / www.wika.mx

Asia

China

WIK A Instrumentation Suzhou Co., Ltd.
Tel. +86 512 6878 8000
info@wika.cn / www.wika.com.cn

India

WIK A Instruments India Pvt. Ltd.
Tel. +1800-123-101010
info@wika.co.in / www.wika.co.in

Japan

WIK A Japan K. K.
Tel. +81 3 5439-6673
info@wika.co.jp / www.wika.co.jp

Kazakhstan

TOO WIK A Kazakhstan
Tel. +7 727 225 9444
info@wika.kz / www.wika.kz

Korea

WIK A Korea Ltd.
Tel. +82 2 869-0505
info@wika.co.kr / www.wika.co.kr

Malaysia

WIK A Instrumentation (M) Sdn. Bhd.
Tel. +60 3 5590 6666
info@wika.my / www.wika.my

Philippines

WIK A Instruments Philippines Inc.
Tel. +63 2 234-1270
info@wika.ph / www.wika.ph

Singapore

WIK A Instrumentation Pte. Ltd.
Tel. +65 6844 5506
info@wika.sg / www.wika.sg

Taiwan

WIK A Instrumentation Taiwan Ltd.
Tel. +886 3 420 6052
info@wika.tw / www.wika.tw

Thailand

WIK A Instrumentation Corporation
(Thailand) Co., Ltd.
Tel. +66 2 326 6876
info@wika.co.th / www.wika.co.th

Uzbekistan

WIK A Instrumentation FE LLC
Tel. +998 71 205 84 30
info@wika.uz / www.wika.uz

Africa/Middle East

Botswana

WIK A Instruments Botswana (Pty) Ltd.
Tel. +267 3110013
info@wika.co.bw / www.wika.co.bw

Egypt

WIK A Near East Ltd.
Tel. +20 2 240 13130
info@wika.com.eg / www.wika.com.eg

Namibia

WIK A Instruments Namibia Pty Ltd.
Tel. +26 4 61238811
info@wika.com.na / www.wika.com.na

Nigeria

WIK A WEST AFRICA LIMITED
Tel. +234 17130019
info@wika.com.ng / www.wika.ng

Saudi Arabia

WIK A Saudi Arabia LLC
Tel. +966 53 555 0874
info@wika.sa / www.wika.sa

South Africa

WIK A Instruments Pty Ltd.
Tel. +27 11 62100-00
sales@wika.co.za / www.wika.co.za

United Arab Emirates

WIK A Middle East FZE
Tel. +971 4 883-9090
info@wika.ae / www.wika.ae

Australia

Australia

WIK A Australia Pty. Ltd.
Tel. +61 2 88455222
sales@wika.com.au / www.wika.com.au

New Zealand

WIK A Instruments Limited
Tel. +64 9 8479020
info@wika.co.nz / www.wika.co.nz

WIK A USA

1000 Wiegand Blvd. | Lawrenceville, GA | 30043
Tel. 1-888-945-2872 | info@wika.com | www.wika.us

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information here!



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www.wika.us