Product Digest

WIKA's Featured Products

for Pressure, Temperature, Level, Flow, & Force Measurement

WIKA

Part of your business

Contents

Solutions and Services for Pressure, Temperature, Level, Flow, and Force 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.

WIKA USA: Your Reliable Partner for Measurement Technology

WIKA USA's LeanSigma® Methodology

WIKA USA 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 USA has developed a 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 a few days.
- 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 USA having the industry's shortest lead times. You will get exactly what you want, when you need it!

WIKA USA's Customized Dial Printing Capabilities

WIKA USA's customized printing capabilities are among the best in the industry. WIKA USA 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 USA's NIST Traceable Calibration Lab

WIKA USA'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.

A variety of instruments, including mechanical and electronic pressure measuring instruments, deadweight testers, temperature sensors, resistance thermometers, and dry well calibrators can all be calibrated and certified by WIKA USA.

Mechanical Pressure Measurement

WIKA USA 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 guarantee 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

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:	± 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:	± 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

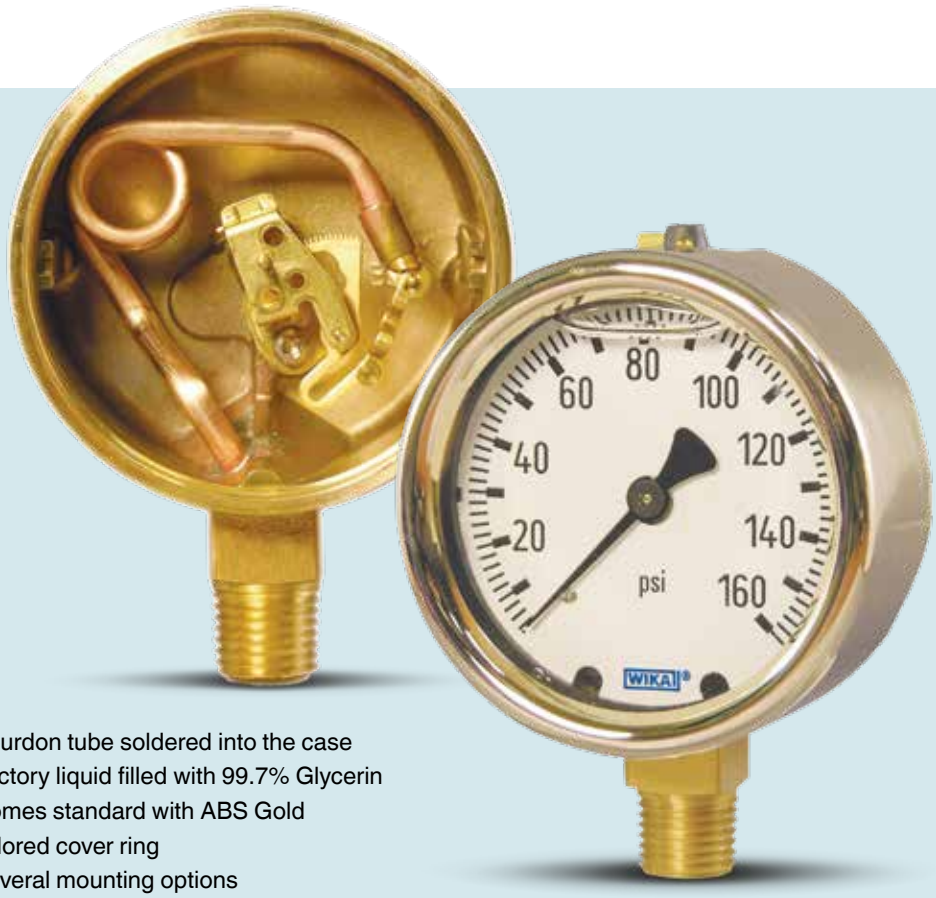
Case size:	2”, 2.5” & 4”
Pressure Ranges:	-30…0”Hg up to 0…15000 psi
Wetted Parts:	Brass
Case:	304 stainless steel
Ingress Protection:	IP 65
Accuracy:	± 2/1/2 % of full span
Unique Features:	Factory glycerin filled Easily adaptable with u-clamp bracket & front flange (optional)
Data Sheet:	21X.53

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	IP 65
Accuracy	± 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

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 (≤ 0.25%)
Case:	■ Black plastic (standard)
Accuracy:	■ ± 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 (≤ 0.25%)
Case:	■ 304 Stainless steel
Accuracy:	■ ± 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 (≤ 0.25%)
Case:	■ 304 stainless steel
Ingress Protection:	■ IP 65
Accuracy:	■ ± 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

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:	■ ± 2/1/2 % 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

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

Direct Drive Gauge

Solid Front Design

232.34DD

Case Size	4½"
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	IP 54
Accuracy	± 0.5 % of full span ± 1.0 % (ranges 0/10,000 psi & up)
Unique Features	Silicone dampened Bourdon tube
Data Sheet	232.34DD

- 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
- 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.

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 tainless 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

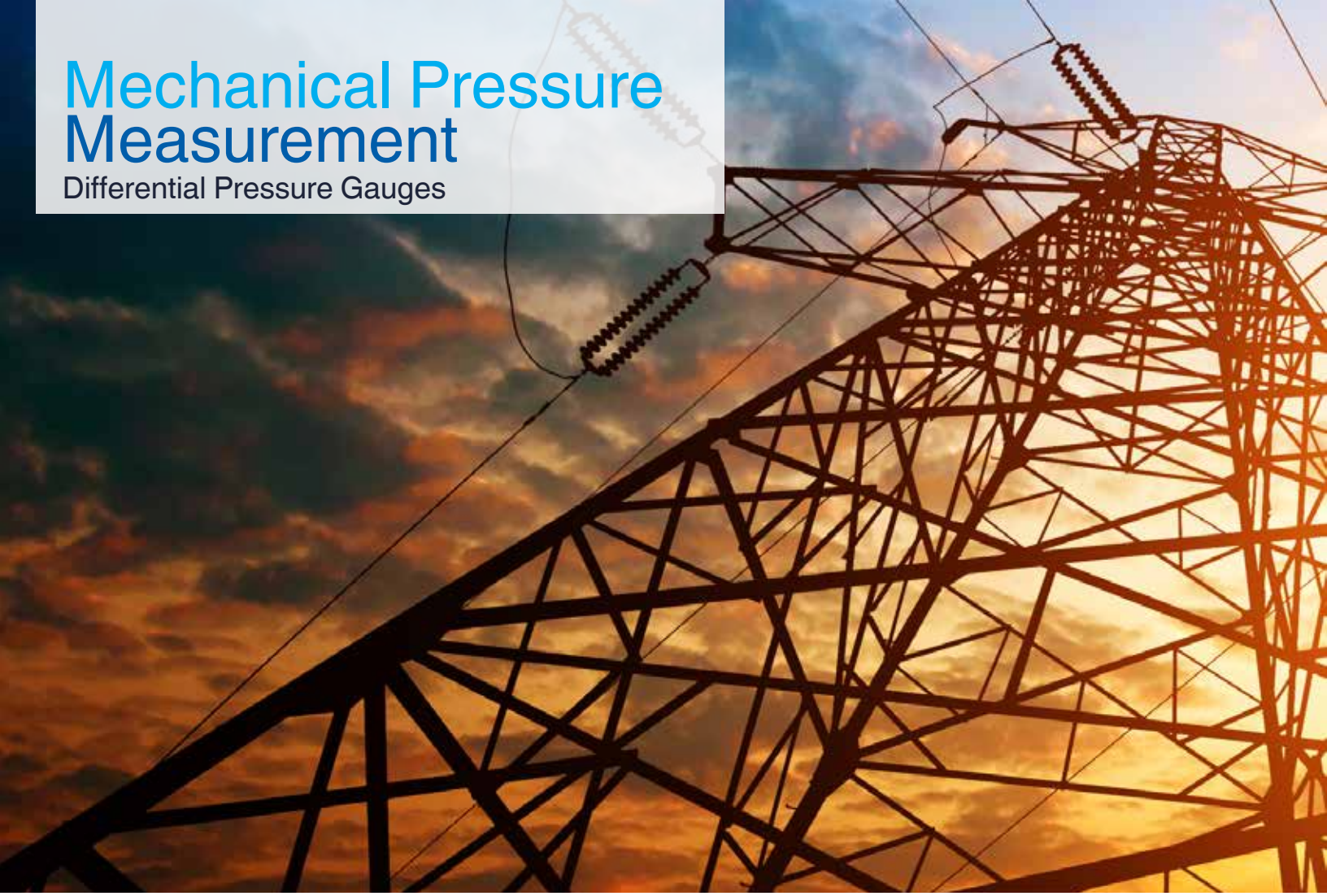
732.14, 733.14

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 fille (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:	■ ± 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:	■ ± 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:	■ 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

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 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

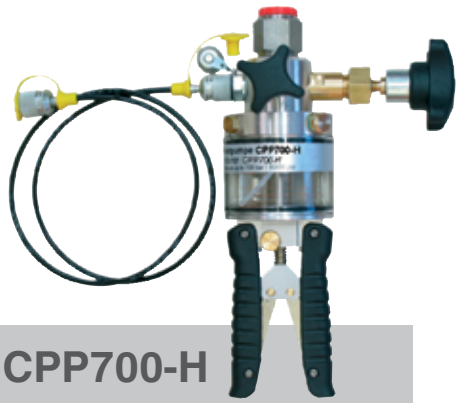
Hand-Held Pressure Indicator

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

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 vibrations and pulsations where case filling is not permissible

InSight™ Dial Options

Availabile 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 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

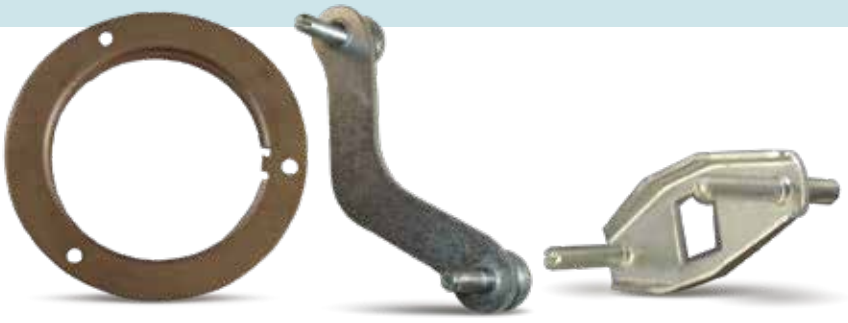
Case Size	4½”
Material	Aluminum cloth with silica aerogel insulator
Part Number	52735671
Unique Features	Protects gauge from external heat source. Internal temp. drop of 170°F when exposed to 250°F

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

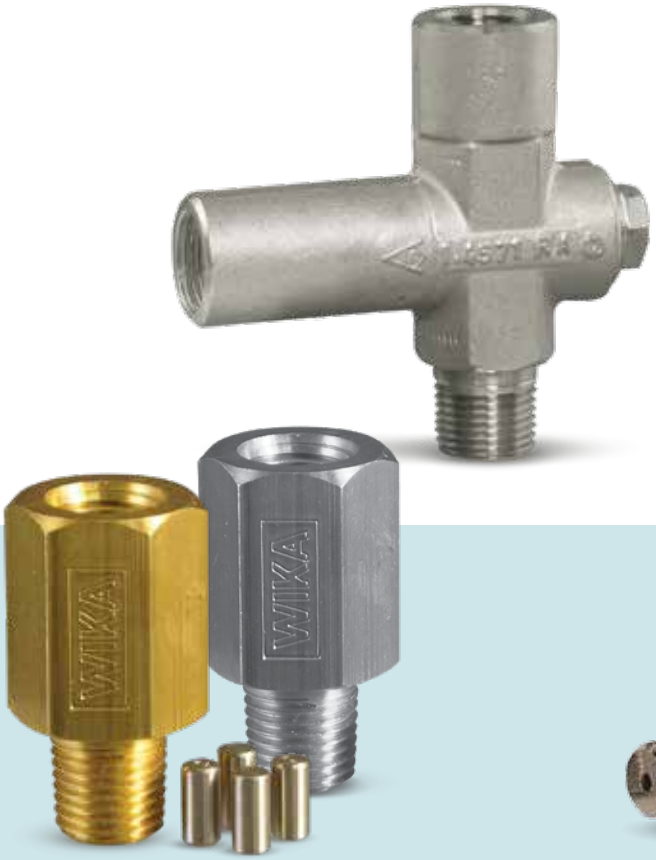
Availability	Most gauges with male process connection
Material	Brass, 316 stainless steel & Monel
Application	For severe pulsations and pressure spikes



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

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

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

Siphon Safety Cage

910.15.300

Application To protect operators from exposure to extreme heat radiating from siphons in steam applications. Allows air circulation to reach the siphon and enhance the cooling and condensation process

Material 304 stainless steel

Data Sheet 910.115.300

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:	■ ± 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:	■ ± 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

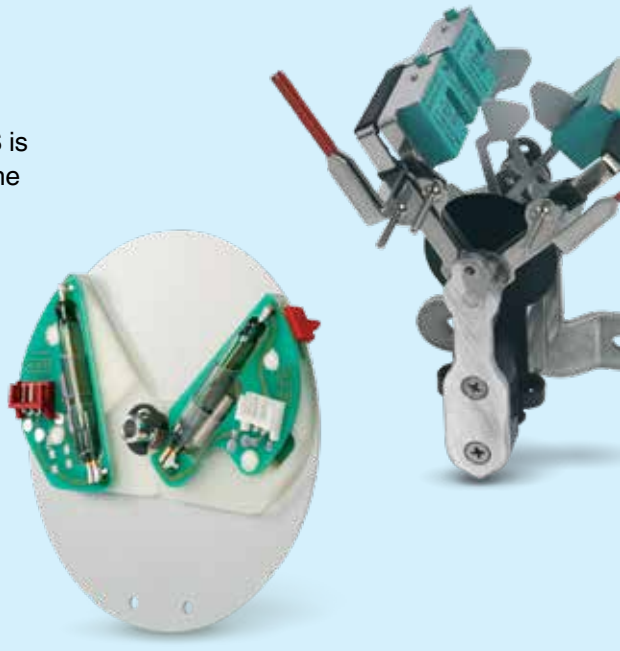
DPGT43HP.100/160

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:	■ ± 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:	± 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

PGS23.100/160

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

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:	± 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:	■ ± 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:	■ ± 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

S-11, F-21

Standard Industrial Grade Transmitters, Flush Diaphragm

Non-Linearity:	■ Up to ± 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

A-10

General Purpose Transmitter

Accuracy:	■ Up to ± 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

DG-10-S, DG-10-E

Digital Pressure Gauges

Accuracy:	■ Up to ± 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 ± 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

Electronic Pressure Measurement

General Purpose Industrial Applications

PSD-4

Pressure Transmitters with Integral LED Display and Switch Options

Non-Linearity:	■ ± 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 swicth 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

TSD-30

Temperature Transmitter with Integral LED Display and Switch Options

Non-Linearity:	■ ± 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

LSD-30

Level Transmitter with integral LED Display and Switch Options

Non-Linearity:	■ ± 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 ■ 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

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

High Pressure Transmitters

Non-Linearity:	■ Up to ± 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

P-30, P-31

High Precision Pressure Transmitters

Non-Linearity:	■ ± 0. 05 % B.F.S.L. of full span
Measuring Ranges:	■ 0…100"WC up to 0…10,000 psi ■ Positive gauge pressure and absolute pressure
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

UPT-20, UPT-21

Universal Process Transmitter

Non-Linearity:	■ ± 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

LF-1

High Performance Submersible Level Transmitter

Non-Linearity:	■ ± 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 ± 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

LS-10

Standard Submersible Level Transmitter

Non-Linearity:	± 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:	■ ± 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:	■ ± 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:	■ ± 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

D-20-9, D-21-9

Pressure Transmitter with CANopen Interface

Non-Linearity:	■ ± 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.

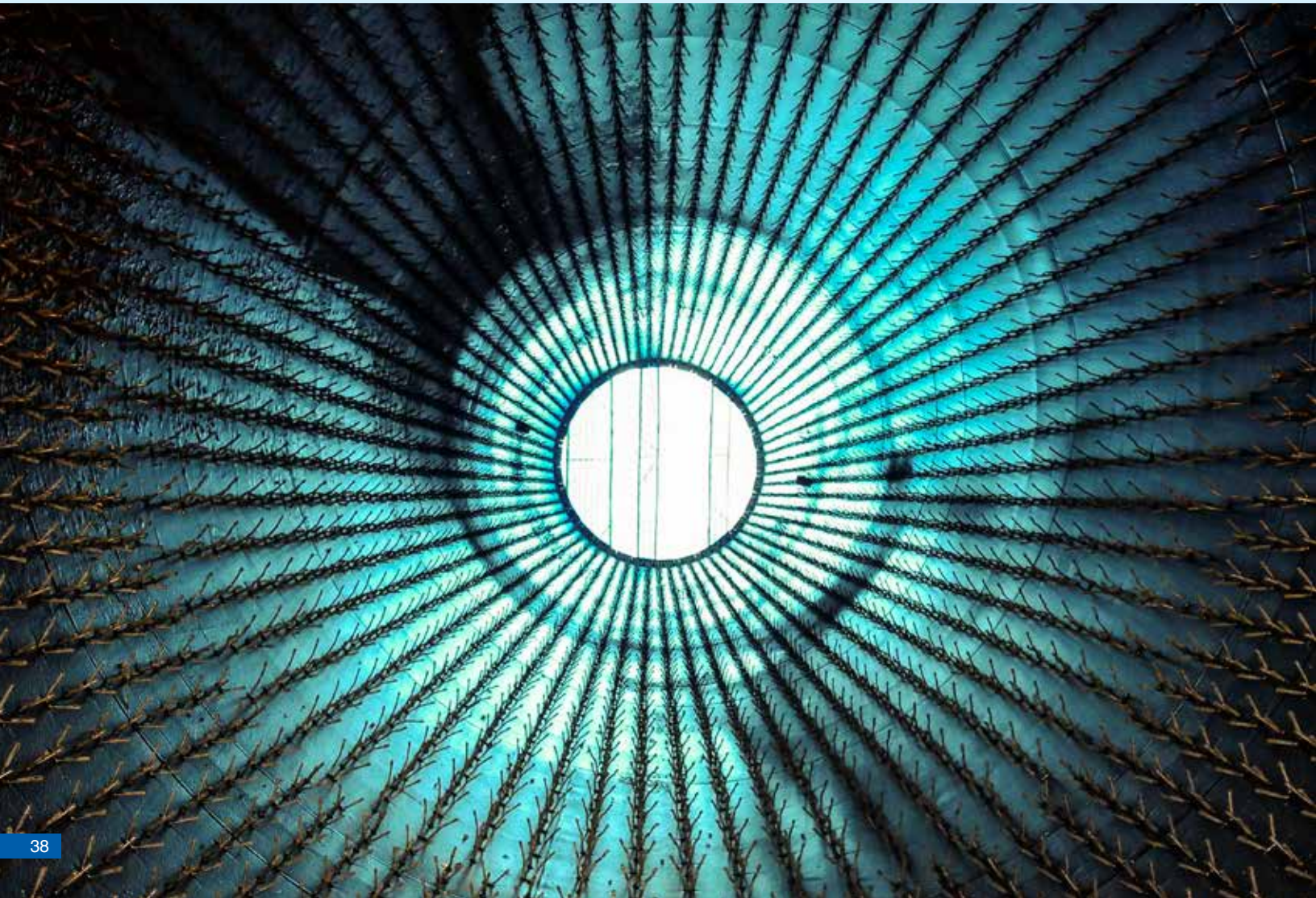
Diaphragm Seals

- 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 to1500
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 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 (± 15°).

Sanitary Solutions

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:	■ ± 2/1/2 % of full span (2.5") & ± 1.0 % (4")
Unique Features:	■ Availalbe 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:	■ ± 1.6 % of full span
Unique Features:	■ Mechanical pressure transmission without internal transmisstion fluid ■ Standard with external zero adjustment (± 15°) ■ 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:	■ ± 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

Sanitary Solutions

SA-11

High Temperature Sanitary Pressure Transmitter

Non-Linearity:	■ ± 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

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

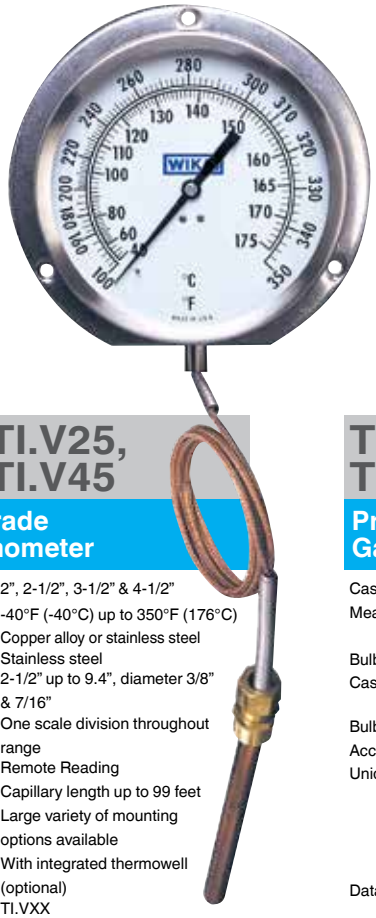
Industrial Grade Bimetal Thermometer

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.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

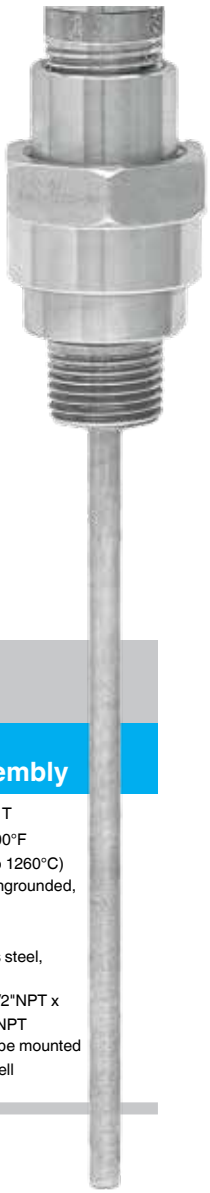
Case size:	4-1/2" & 6"
Measuring Ranges:	-320°F (-200°C) up to 1200°F (650°C)
Bulb Material:	316 stainless steel
Case Material:	Stainless steel, aluminum or phenolic (turret style)
Bulb Length:	3/8" diameter x 3"
Accuracy:	± 1.0 % of full span
Unique Features:	Remote reading or adjustable angle 316SS 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) 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

Electrical Temperature Measurement



TC10-2

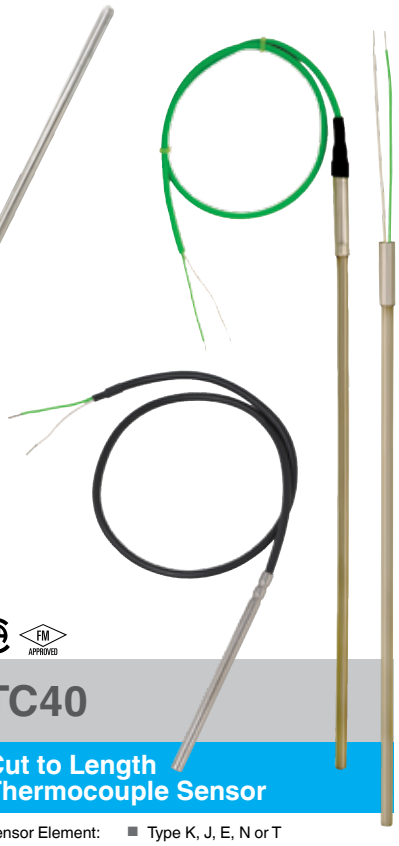
Spring Loaded Thermocouple Assembly

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, Alloy 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, Alloy 600
Connection Head:	■ Aluminum, 1/2"NPT x Conduit 3/4"NPT
Unique Features:	■ To be used with thermowell or directly into process
Data Sheet:	■ TC15-2



TC40

Cut to Length Thermocouple Sensor

Sensor Element:	■ Type K, J, E, N or T
Measuring Ranges:	■ -328°F.. +2300°F (-200°C up to 1260°C)
Termination:	■ Stripped leads, Connectors
Junction:	■ Grounded / Ungrounded, Single/ Dual
Probe Diameter:	■ 0.020" ... 3/8"
Sheath Material:	■ 316 stainless steel, Alloy 600
Cable:	■ PTFE, Fiberglass, PVC, Silicone
Process Connections:	■ Compression fitting, fixed bushing
Data Sheet:	■ TE 65.40

Electrical Temperature Measurement

TR10-2

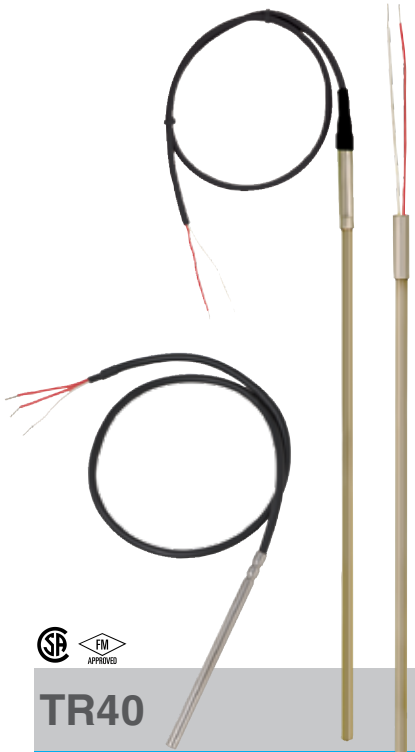
Spring Loaded RTD Assembly

Sensor Element:	Pt10, Pt100, Pt1000
Measuring Ranges:	-328°F… 1382°F (-200°C up to 750°C)
Sensor Type:	Single/Dual
Wiring Configuration:	2, 3, and 4 wire
Probe Diameter:	1/4" or 6 mm
Sheath Material:	316 stainless steel, Alloy 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

TR15-2

Remote Mount RTD Assembly, Fixed or Spring Loaded

Sensor Element:	Pt10, Pt100, Pt1000
Measuring Ranges:	-328°F… 1382°F (-200°C up to 750°C)
Sensor Type:	Single/Dual
Wiring Configuration:	2, 3, and 4 wire
Probe Diameter:	1/4" or 6 mm
Sheath Material:	316 stainless steel, Alloy 600
Connection Head:	Aluminum, 1/2"NPT x Conduit 3/4"NPT
Unique Features:	To be used with thermowell or directly into process
Data Sheet:	TR15-2



TR40

Cut to Length RTD Sensor

Sensor Element:	PT100, PT1000, Pt10
Measuring Ranges:	-320 ... +1,112 °F (-196 ... +600 °C)
Sensor Type:	Single, Dual
Wiring Configuration:	2, 3, and 4 wire
Termination:	Stripped leads, Connectors
Probe Diameter:	1/8" ... 3/8"
Sheath Material:	316 stainless steel, Alloy 600
Cable:	PTFE, Fiberglass, PVC, Silicone
Process Connections:	Compression fitting, fixed bushing
Data Sheet:	TE 60.40

T15

Digital Temperature Transmitter

Input:	Resistance temperature sensors, potentiometers
Accuracy:	< 0.1%
Output Signal:	4…20 mA
Unique Features:	Extremely easy and fast configuration
Data Sheet:	TE 15.01

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)

Tubeskins & Multipoints

GAYESCO®
Temperature Specialists

TC59-W

Weld Pad Thermocouple

Sensor element:	Type K, J, E, or N
Measuring range:	0 … +1,260 °C, +32 ... +2,300 °F
Measuring point:	Grounded or ungrounded
Process connection:	Surface mount welded
Data sheet:	TE 65.58

TC59-V

Tubeskin Thermocouple V-Pad®

Sensor element:	Type K, J, E or N
Measuring range:	0 … +1,260 °C, 32 ... +2,300 °F
Measuring point:	Grounded
Process connection:	Surface mount welded
Data sheet:	TE 65.59

TC59-X

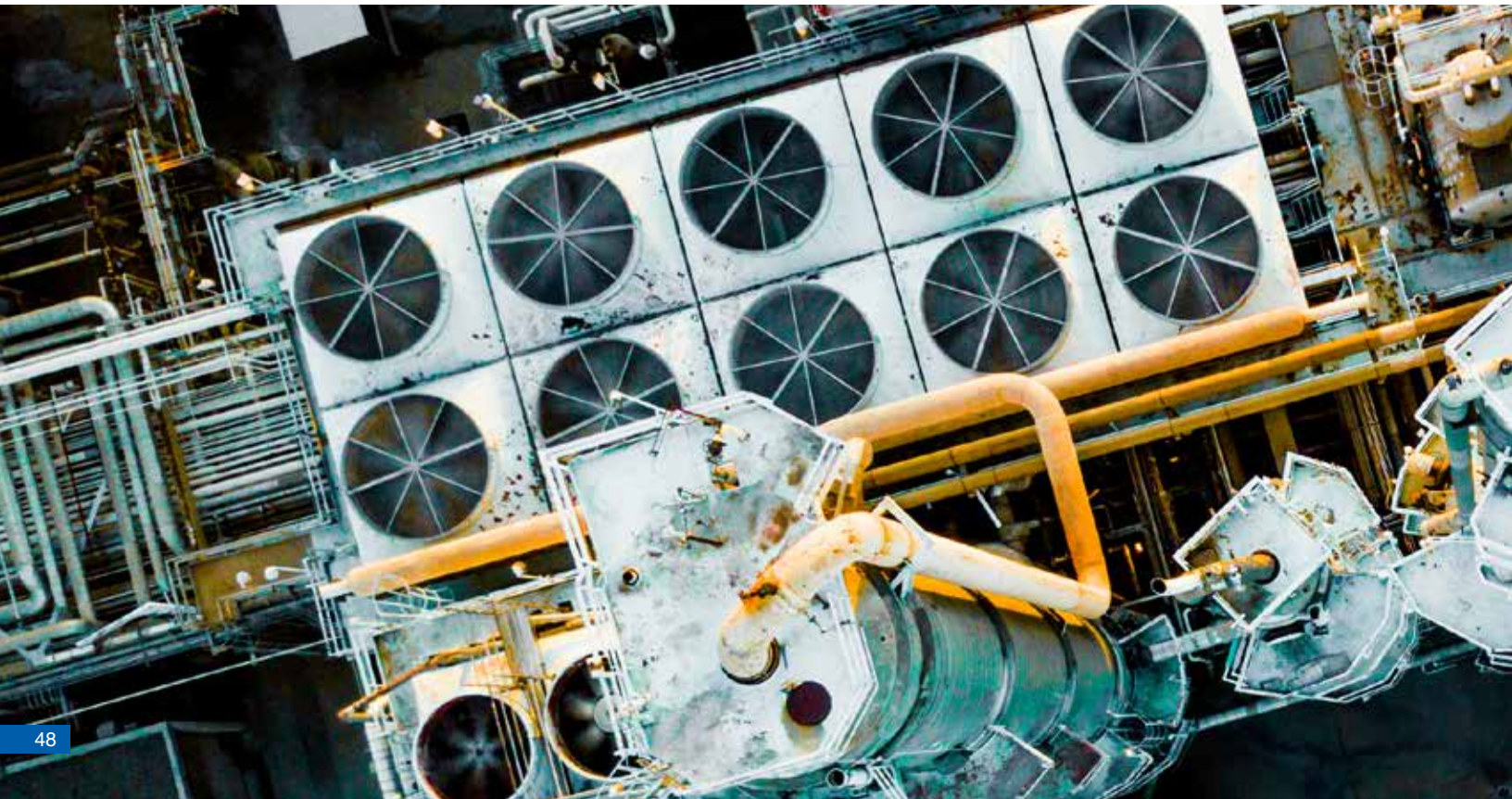
Tubeskin Thermocouple Assembly Gayesco Xtracto-Pad®

Sensor element:	Type K, J, E or N
Measuring range:	0 … +1,260 °C, 32 ... +2,300 °F
Measuring point:	Grounded or ungrounded
Process connection:	Surface mount removable / shielded
Data sheet:	TE 65.57

TC59-R

Tubeskin Thermocouple Assembly Gayesco Refracto-Pad®

Sensor element:	Type K, J, E or N
Measuring range:	0 … +1,260 °C, 32 ... +2,300 °F
Measuring point:	Grounded or ungrounded
Process connection:	Surface mount removable / shielded
Data sheet:	TE 65.56



Tubeskins & Multipoints

Temperature Specialists

TC95

Multipoint Thermocouple In Band Design

Sensor element:	Types K, J, E, N or T
Measuring range:	0 … 1,200 °C, 32 … 2,192 °F
Measuring point:	Ungrounded or grounded
Process connection:	Various process connections
Data sheet:	TE 70.01

TC96-R

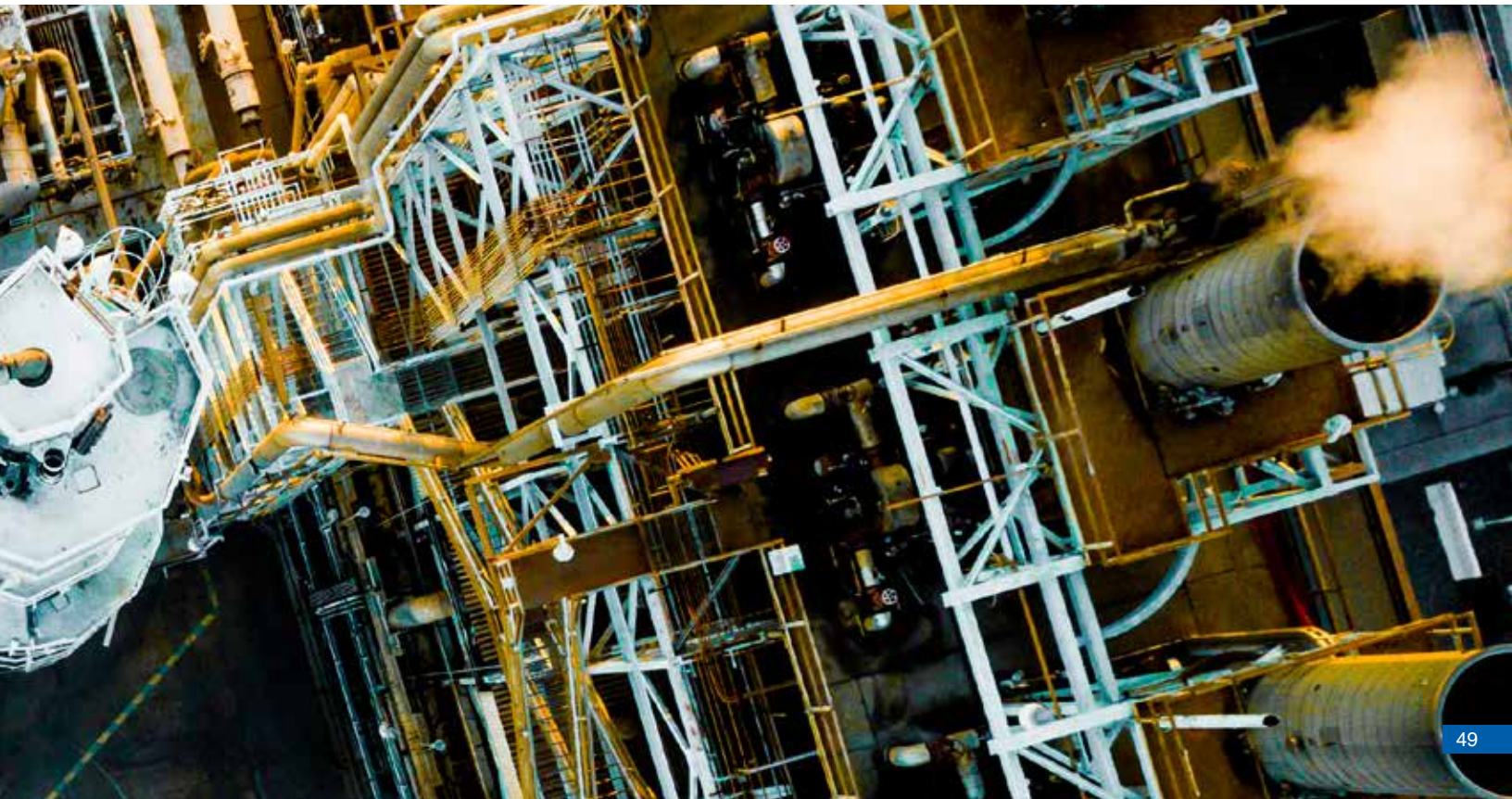
Gayesco Flex-R® Flexible Multipoint Thermometer

Sensor element:	Types K, J, E, or N
Measuring range:	0 … 1,200 °C, 32 … 2,192 °F
Measuring point:	Ungrounded or grounded
Process connection:	Various process connections
Data sheet:	TE 70.10

TC96-O

Gayesco Flex-O® Flexible Multipoint Thermometer

Sensor element:	Types K, J, E, or N
Measuring range:	0 … 1,200 °C, 32 … 2,192 °F
Measuring point:	Ungrounded or grounded
Process connection:	Various process connections
Data sheet:	TE 70.11



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 ≤ 25 µin (Ra ≤ 0.64 µm) per ASME BPE, SF2 ■ Electro polished surface finish (optional)
Data Sheet:	■ TW 95.22

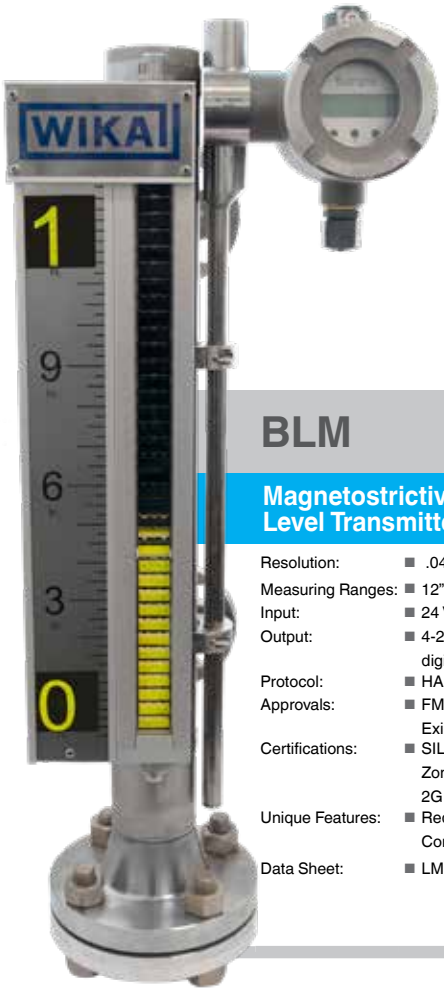
TW10

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

Level Measurement

Magnetic Level



BLM

Magnetostrictive Level Transmitter

Resolution:	■ .04" / < 0.1 mm
Measuring Ranges:	■ 12" – 240"
Input:	■ 24 VDC
Output:	■ 4-20mA with or without digital display
Protocol:	■ HART
Approvals:	■ FM, ATEX Exi, Exd, EAC, NEPSI Exi, Exd
Certifications:	■ SIL 2, CL.I Gr.ABCD/CL.II Gr.EFG, Zone 1 II 2G Ex d IIB T3 ... T6 Gb, II 2G Ex ia IIB T3 ... T6
Unique Features:	■ Requires no calibration, All 316ss Construction, rated to 365 F / 185 C
Data Sheet:	■ LM 10.05

WRS, WCS, BGU

Level Switch

Contact:	■ SPDT(Reed), DPDT(Reed), Dry Contact
Switch Power:	■ 230VAC, 60 VA, 1 A DC 230 V, 30 W, 0.5 A, ■ 230V AC, 200VA, 5A or 230V DC, 60W, 2A
Approvals:	■ FM, CSA, ATEX Exi, Exd, DNV-GL, EAC, or IEC Exd
Certifications:	■ CL.I Div.1 Gr.BCD/CL.II Gr.EFG/ CL.III (CSA, FM) ■ EEx d IIC T6 CL.I Zone 1 (ATEX) Ex d IIC T6 CL.I ■ Zone 1 (IEC) Type 4X / IP66
Unique Features:	■ Adjustable design, SS heads available, rated to 716 F / 380 C
Data Sheet:	■ WRS WCS, BGU

BNA
Magnetic Level with Bypass Chamber

Chamber	2” - 3”
Temperature Ranges	-320°F... 1,000°F (-195°C... 537°C)
Pressure	Full vacuum to 5,000 psi or 344 bar
Material	316/L, 304/L, 317, 321, 347 SS, Hastelloy C, Monel 400, Alloy 20, Inconel 625, AL-6XN, PVC, ETFE
Connection	ANSI, DIN, EN, JIS Flanges, MNPT/ FNPT, O-let, weld ends
Sizes	From ½” to 8” standard
Unique Features	Interface measurement, Externally mounted switches/ transmitters
Data Sheet	BNA

- Dependable level indication for years with little to no maintenance required
- Hundreds of designs available for easy reto-fit replacement of traditional sight glass
- High vibration designs available
- High temperature insulation, cryogenic insulation, steam tracing, electrical heat tracing, liquid gas chamber construction
- Built to ASME B31.3, B31.1, U-Stamp, PED-Stamp, EAC, DNV, ABS, and ATEX Exd,

FLR-SBDF

Reed Chain Float Level Transmitter

Resolution:	5, 10, 15, 18mm
Measuring Ranges:	6” – 240”
Input:	24 VDC
Output:	4-20mA, 0-100 Ohms, with or without DIH-50 digital display
Protocol:	HART, FF or Profibus
Approvals:	FM, CSA, UL, ATEX Exi, Exd, DNV-GL, ABS, EAC, or IEC Exd
Certifications:	CL.I Gr.BCD/CL.II Gr.EFG/CL.III (CSA, FM, UL) EEx d IIC T6 CL.I Zone 1 (ATEX) Ex d IIC T6 CL.I Zone 1 (IEC) Type 4X / IP66
Unique Features:	Requires no calibration, SS head option, rated to 660 F / 350 C, Impervious to electromagnetic interference
Data Sheet:	FLR-SBDF, WIR/WFR, LM 20.02

WFS, FLS

Float Level Reed Switch

Process Connection:	ANSI, DIN, MNPT, BSP, Tri-Clamp, Etc
Temp Ranges:	-320°F… 660°F (-196°C…350°C)
Pressure Ranges:	Vacuum up to 580 PSI/ 40 Bar
Specific Gravity:	.30 … 2.0
Material:	316/L, Titanium Gr 2, PVC, PP, PVDF
Measuring Range:	6” … 236”
Switch Power:	AC ≤ 230 V; 40 VA; 1 A DC ≤ 230 V; 20 W; 0.5 A
Switch Points:	Up to 6
Approvals:	FM, 3A, Atex Exi, Exd, IEC Exd, DNV-GL, LR, ABS, BV
Unique Features:	Patented Sanitary design, Complete plastic construction, angular designs available
Data Sheet:	WFS, LM 20.01

Flow Measurement

FLC-FL

Venturi Meter

Application:	■ Gas processing, power, petro chemical, refinery and water
Fluids of Measurement:	■ Gas, liquid, steam
Standards:	■ ISO 5167-4, ASME PTC 19.5 & ASME MFC-3M
Line Size:	■ 2" thru 48" (Note: large diameter meters are available upon request
Pressure Taps:	■ Meter bodies are fabricated with a wide variety of pressure taps, common sizes ½" to 1"
Material:	■ Plate or machined bar-forgings in carbon steel, stainless steel or various other material depending on the process application
End Connections:	■ Raised face/RTJ flanged or weld-in connections
Accuracy:	■ ≤ ±0.5% of actual flow rate. By means of a calibration a higher accuracy can be achieved
Calibration:	■ Available upon request

FLC-OP

Orifice Plate

Standards:	■ ISO 5167-2, ASME MFC3M
Material:	■ 316L SS, Hastelloy C276, Monel M400, Duplex & others
Pipe Size:	■ ≥ 2" (≥ 50 mm)
Beta Ratio β = d/D:	■ Depending on version
Accuracy:	■ ± 0.5…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

FLC-FL

Orifice Flange

Standards:	■ ISO 5167-2
Flange Material:	■ Carbon steel, ASTM A105, ASTM A350 LF2 & other
Pipe Size:	■ ≥ 2" (≥ 50 mm)
Beta Ratio β = d/D:	■ Depending on version
Accuracy:	■ ± 0.5…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

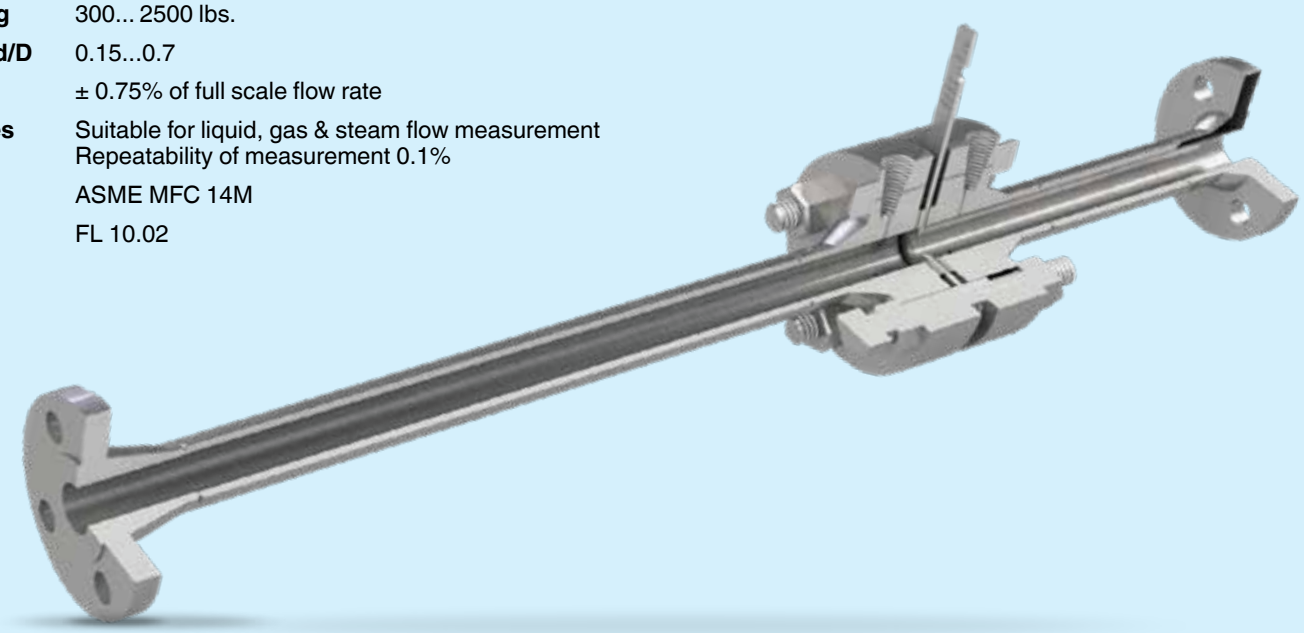
FLC-RO-ST, FLC-RO-MS

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

Honed
Meter Runs
FLC-MR

Flange Material	Wide range of materials available
Pipe Size	½”... 1½” (12... 40mm)
Pressure Rating	300... 2500 lbs.
Beta Ratio β = d/D	0.15...0.7
Accuracy	± 0.75% of full scale flow rate
Unique Features	Suitable for liquid, gas & steam flow measurement Repeatability of measurement 0.1%
Standards	ASME MFC 14M
Data Sheet	FL 10.02



Force Measurement

XLU68f

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

XLC86

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

XLP58

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

XLD150/300

Thru-Hole 'Donut' Load Cell

Load Range:	■ 0...5 lbs. to 0...100000 lbs.
Output:	■ Voltage or current
Size:	■ 1.50" to 3" Diameter
Accuracy: (>50lbs.)	■ ±0.1% Repeatability
Operation:	■ Compression Only
Construction:	■ Welded Stainless Steel
Feature:	■ 150% Safe Overload

F5301 & F53C1

Industrial Load Pin

Load Range:	■ 0...1100 lbs. to 0...45000 lbs.
Output:	■ Voltage or current
Size:	■ 20mm to 70mm Diameter
Accuracy:	■ ±2.0% Linearity
	■ ±0.20% Hysteresis
Element:	■ Thin Film Technology
Construction:	■ Welded Stainless Steel
Feature:	■ ATEX Approval

XLRM

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:	■ ±0.05% Repeatability
Operation:	■ Tension/Compression
Construction:	■ Welded Stainless Steel
Feature:	■ Hermetically Sealed

WIKA USA
Diaphragm Seal Express Lane

Expediting Lead Times When the Unexpected Happens

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

WIKA's Express Lane program offers you ordering flexibility, when you need it. Using our over 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 USA's Express Lane program with 1-day, 2-day or 5-day lead time options.*

For more information about the Diaphragm Seal Express Lane, call 1-855-398-3701 or email ExpressDS@wika.com.

*Quantity limits apply.

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WIKA USA's full-service ISO 17025 accredited Calibration Lab can calibrate all types of pressure and temperature instruments, as well as perform repairs or refitting as required. For damaged devices, our experienced technicians can replace parts on gauges, such as movements and window, as well as replace and reset pointers. The lab can also make the necessary adjustments to restore gauges to published accuracy specifications. We supply:

- Pressure capabilities from -15 psi to 72,000 psi at accuracies from .005% of reading to .15% FS depending on pressure range.
- Temperature capabilities are from -22°F (-30°C) to 788°F (420°C).
- Calibrated or repaired gauge back to you within approximately three business days.

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

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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

WIKA USA

For over 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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