Wika’s Featured Products for Pressure, Temperature, Level, Flow, & Force Measurement
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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

**111.11**
Regulator Gauge

- Case size: 1.5", 2", 2.5", & 4"
- Pressure Ranges: -30...0"Hg up to 0...5000 psi
- Wetted Parts: Copper alloy
- Case: Steel gold plated
- Accuracy: ± 3/2/3% of full span
- Unique Features: UL 252 & UL 404 approvals
- Free of oil and grease
- Other case materials (optional)
- Data Sheet: 111.11

**111.12**
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

**111.10**
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

Utility Gauges - Dry
Mechanical Pressure Measurement
### 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
- **Data Sheet:** 113.13

### Contractor Gauge

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

### Hydraulic Gauge, Economy Style

- **Case size:** 2", 2.5" & 4"
- **Pressure Ranges:** -30…0"Hg up to 0…15000 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
- **Data Sheet:** 113.13

### Hydraulic Gauge

#### Liquid Filled

- **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
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

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

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**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Case Size</th>
<th>Pressure Ranges</th>
<th>Wetted Parts</th>
<th>Case</th>
<th>Ingress Protection</th>
<th>Accuracy</th>
<th>Unique Features</th>
<th>Data Sheet</th>
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<tr>
<td>232.53, 233.53</td>
<td>Crimped Bezel, Field Liquid Fillable</td>
<td>2&quot;, 2.5&quot; &amp; 4&quot;</td>
<td>-30...0&quot;Hg up to 0...15,000 psi</td>
<td>316 stainless steel</td>
<td>304 stainless steel</td>
<td>IP 65</td>
<td>± 2/1/2 % of full span (2&quot; &amp; 2.5&quot;)</td>
<td>± 1% of full span (4&quot;)</td>
<td>Field fillable</td>
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<tr>
<td>232.54, 233.54</td>
<td>Bayonet Bezel, Field Liquid Fillable</td>
<td>2.5&quot; &amp; 4&quot;</td>
<td>-30...0&quot;Hg up to 0...15,000 psi</td>
<td>316 stainless steel</td>
<td>304 stainless steel</td>
<td>IP 65</td>
<td>a 21/2 % of full span (2.5&quot;)</td>
<td>a 1% of full span (4&quot;)</td>
<td>Field fillable</td>
</tr>
<tr>
<td>233.55</td>
<td>Panel Builder Gauge, Factory Filled Case</td>
<td>2.5&quot;</td>
<td>-30...0&quot;Hg up to 0...15,000 psi</td>
<td>316 stainless steel</td>
<td>316 stainless steel</td>
<td>IP 65</td>
<td>a 21/2 % of full span</td>
<td></td>
<td>Case, ring &amp; FF 316 stainless steel</td>
</tr>
<tr>
<td>232.50, 233.50</td>
<td>Bayonet Bezel, European Style, Field Liquid Fillable</td>
<td>2.5&quot;, 4&quot;, 4.5&quot; &amp; 6&quot;</td>
<td>-30...0&quot;Hg up to 0...15,000 psi</td>
<td>316 stainless steel</td>
<td>304 stainless steel</td>
<td>IP 65</td>
<td>± 2/1/2% of full span (2.5&quot;)</td>
<td>± 1% of full span (4&quot;, 4.5&quot; &amp; 6&quot;)</td>
<td>Field fillable</td>
</tr>
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</table>
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
- Unique Features: Field fillable (LM only)
- Data Sheet: 23X.34
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
- Wetted Parts: 316 stainless steel
- Case: 304 stainless steel
- Ingress Protection: IP 65
- Accuracy: ± 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

232.34DD
Direct Drive Gauge
Solid Front Design

- 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.

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
- Data Sheet: 910.18.100

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)
- **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)
- **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)
- **Wetted Parts:** ■ 316 stainless steel (232.25)
- **Case:** ■ Copper alloy (232.25)
- **Ingress Protection:** ■ IP 54
- **Accuracy:** ■ ± 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
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
- 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...10 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 (2.5” case size), 304 stainless steel (4” & 6” case size)
- Case: 304 stainless steel
- Ingress Protection: IP 54
- Accuracy: ± 1.6 % of full span
- Unique Features: With zero-adjustment screw on dial
- 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: With zero-adjustment screw on dial
- 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 Sealgauges™, 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 Sealgauges™, 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 Sealgauges™, 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:
  - Max. over-/working pressure 725 psi
  - 2 x 1/4"NPT female back connection
  - Panel mount kit included
  - Optional: Max. over-/working pressure 3000 psi
  - Glycerin case filling (optional, 733.25)
  - NACE MR-0175 compliant
- Data Sheet: 732.25

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
  - 0…6 psi to 0…360 psi
- Wetted Parts: 316 stainless steel & Inconel 718 diaphragm
- Case: 304 stainless steel
- Accuracy: ± 1.6 % of full span
- Unique Features:
  - 2 x 1/4"NPT female process connection
  - Manifold & integrated working pressure gauge (optional)
  - Switches and transmitters (optional)
  - Optional: Solid front version (optional, 733.51)
  - Glycerin/Water case filling (optional, 733.51)
- Data Sheet: 732.51

732.14, 733.14
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
- Case: Black anodized aluminum
- Accuracy: ± 1.6 % of full span
- Unique Features:
  - Max. over-/working pressure 360 psi
  - 2 x 1/4"NPT female process connection
  - Optional: Max. over-/working pressure 950 psi
  - Panel mount kit included
  - Optional: Glycerin/Water case filling (optional, 733.14)
  - Monel wetted parts (optional, 762.14, 763.14)
  - Hastelloy C276 wetted parts (optional)
- Data Sheet: PM 07.13

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 (712.15)
- Case: 304 stainless steel
- Ingress Protection: IP 65
- Accuracy: ± 2.5 % of full span
- Unique Features:
  - Maximum 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: 712.15

732.25, 733.25
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 (712.15)
- Case: 304 stainless steel
- Ingress Protection: IP 65
- Accuracy: ± 2.5 % of full span
- Unique Features:
  - Maximum 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: 712.15
Differential Pressure Gauges

**Data Sheet:**

- **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
  - **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, 700.05, 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:** 700.04
**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: 304 stainless steel
Case: Black thermoplastic (POCAN)
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
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)
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: 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…20,000 psi
Wetted Parts: 316 Stainless steel socket and Ni-Fe-alloy Bourdon Tube
Case: Die-cast Aluminum, black-silver finish
Ingress Protection: IP 54
Accuracy: ± 0.1 % of full span per ASME B40.100 Grade 4A
Unique Features: Front side external zero-adjustment
Mirror band dial
Knife edge pointer
Calibration certificate per EN 10204-3.1
Data Sheet: 342.11
CPG1500

**Precision Digital Pressure Gauge, Grade 4A**

- **Case size:** 4" with 5-1/2 digit 7-segment display
- **Pressure Ranges:** 0…1.5 psi to 0…150,000 psi
- **Wetted Parts:** 316 Stainless steel
- **Display:** 4-1/2 digits depending on range
- **Accuracy:** ± 0.1 % of full span, per ASME B40.100 Grade 4A
  - for的压力0…15 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)
- **Pressure Ranges:** 0…0.4 psi up to 0…14,500 psi
- **Wetted Parts:** 316 Stainless steel (transmitter)
- **Display:**
  - 4-1/2 digits depending on range
- **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)
- **Pressure Ranges:** 0…0.4 psi up to 0…14,500 bar
- **Wetted Parts:** 316 Stainless steel (transmitter)
- **Display:**
  - 4-1/2 digits depending on range
- **Case:** Impact resistant ABS
- **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:** 9.7 x 4.1 x 2.5 inches (250 x 105 x 63 mm)
- **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)
- **Measuring Range:** 0…700 bar (0…10,000 psi)
- **Materials:**
  - Brass, anodized aluminum, stainless steel, ABS
- **Medium:** Hydraulic fluid on mineral oil basis or distilled water
- **Connection:**
  - G1/2 female on top for reference gauge
  - 3.2 FT, HP tube with G1/4 female for test device
- **Unique Features:**
  - Fine adjustment valve
  - Set with NPT adapters available

**Data Sheet:** CT 91.07
Pressure Gauge Options

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

Available Colors: Fluorescent yellow, fluorescent orange, reflective white and reflective glow-in-the-dark
Available 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
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
**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
- **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 65, optional IP 65 (liquid filled)
- Output Signal: 4…20 mA
- Accuracy: ± 2/12% of full span
- Unique Features: Solid front safety design (standard)
- 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
<table>
<thead>
<tr>
<th>Model</th>
<th>Type</th>
<th>Case size</th>
<th>Pressure Ranges</th>
<th>Wetted Parts</th>
<th>Case</th>
<th>Ingress Protection</th>
<th>Output Signal</th>
<th>Accuracy</th>
<th>Unique Features</th>
<th>Data Sheet</th>
</tr>
</thead>
<tbody>
<tr>
<td>PGT43.100/160</td>
<td>Diaphragm Type, All Stainless Steel</td>
<td>■ 4&quot; &amp; 6&quot;</td>
<td>■ 0…10&quot;WC up to 0…360 psi</td>
<td>■ 316 stainless steel</td>
<td>■ 304 stainless steel</td>
<td>■ IP 54, optional IP 65 (liquid filled)</td>
<td>■ Various, ATEX version optional</td>
<td>■ ± 1.6 % of full span</td>
<td>■ Solid front safety design (standard)</td>
<td>■ Switch options available</td>
</tr>
<tr>
<td>DPGT43.100/160</td>
<td>Differential Pressure Type, All Stainless Steel</td>
<td>■ 4&quot; &amp; 6&quot;</td>
<td>■ 0…10&quot;WC up to 0…360 psi</td>
<td>■ 316 stainless steel</td>
<td>■ 304 stainless steel</td>
<td>■ IP 54, optional IP 65 (liquid filled)</td>
<td>■ Various, ATEX version optional</td>
<td>■ ± 1.6 % of full span</td>
<td>■ Solid front safety design (standard)</td>
<td>■ Switch options available</td>
</tr>
<tr>
<td>DPGT43HP.100/160</td>
<td>Differential Pressure Type, High Overpressure Safe</td>
<td>■ 4&quot; &amp; 6&quot;</td>
<td>■ 0…25&quot;WC up to 0…600 psi</td>
<td>■ 316 stainless steel</td>
<td>■ 304 stainless steel</td>
<td>■ IP 54, optional IP 65 (liquid filled)</td>
<td>■ 4…20 mA, 2-wire, ATEX version optional</td>
<td>■ ± 1.6 % of full span</td>
<td>■ High overpressure safe up to 600 psi and optional up to 1500 psi, 3600 psi or 6000 psi.</td>
<td>■ Switch options available</td>
</tr>
</tbody>
</table>
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.
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 Feature: Fixed, factory set switch point
- 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)
- 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 Feature: Solid front safety design (optional)
- Data Sheet: PV 24.03
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

---

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

**Solid front safety design (optional)**

**Data Sheet:** PV 27.13

---

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**

---

**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:**
  - 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

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**DG-10-S, DG-10-E**

**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

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**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

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**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**

**Standard Industrial Grade Transmitter**

- **Non-Linearity:**
  - Up to ± 0.125% B.F.S.L. of full span
- **Measuring Ranges:**
  - 0…10 psi up to 0…20,000 psi (S-20)
  - Positive/negative gauge pressure and absolute pressure
- **Output Signal:**
  - 4…20 mA, DC 0…5 V, 0…10 V & other current, voltage & ratiometric output signals
- **Unique Features:**
  - Robust design for use in harsh environments.
  - Extreme shock & vibration resistant.
  - Test report included with each unit
  - With NEMA 4X connection head (S-20F).

**Data Sheet:** PE 81.61
Electronic Pressure Measurement
General Purpose Industrial Applications

**LSD-30**
Level Transmitter with integral LED Display and Switch Options

Non-Linearity: ± 0.50% B.F.S.L. of full span
Measuring Ranges: 189 mm (7.44") to 730 mm (26.34")
Output Signal: Dual PNP/NPN switch output & 4…20mA or 0…10V
Unique Features: Over 320° rotatable case and display
Data Sheet: TE 67.03

**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
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.
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…20mA or 0…10V
Unique Features: Over 320° rotatable case and display
Data Sheet: TE 67.03

**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
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.
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…20mA or 0…10V
Unique Features: Over 320° rotatable case and display
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
Measuring Ranges: 189 mm (7.44") to 730 mm (26.34")
Output Signal: Dual PNP/NPN switch output & 4…20mA or DC 0…10V
Unique Features: Over 320° rotatable case and display
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
- **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
- **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**

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

<table>
<thead>
<tr>
<th>LF-1</th>
<th>LH-20</th>
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<tbody>
<tr>
<td><strong>High Performance Submersible Level Transmitter</strong></td>
<td><strong>High Performance Submersible Level Transmitter for Measurements in Hazardous Areas</strong></td>
</tr>
<tr>
<td><strong>Non-Linearity:</strong></td>
<td>up to ± 0.5% B.F.S.L. of full span</td>
</tr>
<tr>
<td><strong>Measuring Ranges:</strong></td>
<td>0...50 inWC up to 0...100 psi positive pressure, absolute ranges available as well</td>
</tr>
<tr>
<td><strong>Output Signal:</strong></td>
<td>4...20 mA, HART®, 0.1...2.5V low power</td>
</tr>
<tr>
<td><strong>Ingress Protection:</strong></td>
<td>IP 68 for permanent submersion up to 325 feet (100 m) water column</td>
</tr>
<tr>
<td><strong>Unique Features:</strong></td>
<td>Optional explosion protection in accordance with FM, CSA, IECEx and ATEX</td>
</tr>
<tr>
<td></td>
<td>Optional Hastelloy body</td>
</tr>
<tr>
<td></td>
<td>Optional lightning protection</td>
</tr>
<tr>
<td><strong>Data Sheet:</strong></td>
<td>LM 40.04</td>
</tr>
</tbody>
</table>
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**

- **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
Intrinsically Safe 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...5 inWC up to 0...15000 psi
Positive/negative gauge pressure and absolute pressure
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
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

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

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

WIKI 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
- ½” NPT threaded

Process:
- ¼” to 1” NPT threaded
- ½” to 2” NPS flanged
- ANSI B16.5 Class 150 to 1500
- 316L, Monel, HC276, Tantalum

Wetted parts:
- consult factory
- Express lane item

990.TA, 990.TB
Mini Seals

Instrument:
- ¼" of ½” NPT-F

Process:
- ½” 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
- 316L, Monel, HC276, Tantalum

Wetted parts:
- 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
Wetted parts: 316L, Monel, HC276, Tantalum
Technology: Diaphragm per TIG, Metal bonding, Seam or Laser Welding techinics applied
Options: consult factory

910.ZA, 910.ZB
Saddle & Block Flanges

Instrument: ¼" of ½” NPT-F
Process: Saddle design
Wetted parts: 316L, Monel, HC276
Options: consult factory

981.10, 981.27
Inline Diaphragm Seals

Instrument: ¼” of ½” NPT-F
Process: Water & 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

- 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°).
**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:** 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:** ± 1.6 % of full span
- **Unique Features:** Mechanical pressure transmission without internal transmission 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
SA-11
High Temperature Sanitary Pressure Transmitter

Non-Linearity: ± 0.25% B.F.S.L. of full span
Measuring Ranges: 0...100 °C 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)
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 limitations, Intrinsically version optional available, Large variety of sanitary connections available With thermowell (TR21-A)

Data Sheet: TE 60.28 (TR21-C), TE 60.26 (TR21-A)
Mechanical Temperature
Twin Temp Thermometers

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.

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

**Industrial Grade Vapor Thermometer**

- **Case size:** 2", 3" and 5"  
- **Measuring Ranges:** -100°F (-70°C) up to 100°F (50°C)  
- **Stem Material:** 304 stainless steel  
- **Bulb Material:** Stainless steel  
- **Bulb Length:** 2-1/2" up to 9.4", diameter 3/8" & 7/16"  
- **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.V20, TI.V25, TI.V35, TI.V45

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

**Industrial Grade Bimetals, Vapor, & Gas Actuated Thermometers**

- **Case size:** 2", 2-1/2", 3-1/2" & 4-1/2"  
- **Measuring Ranges:**  
  - -100°F (-70°C) up to 100°F (50°C)  
  - -40°F (-40°C) up to 350°F (176°C)  
- **Stem Material:** 304 stainless steel  
- **Bulb Material:** Copper alloy or stainless steel  
- **Bulb Length:**  
  - 2-1/2" up to 24"  
- **Accuracy:** ± 1.0 % of full span  
- **Unique Features:**  
  - Remote Reading  
  - Capillary length up to 99 feet  
  - Large variety of mounting options available  
  - With integrated thermowell (optional)  
- **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 100°F (550°C)  
- **Stem Material:** 304 stainless steel  
- **Bulb Material:** Stainless steel  
- **Bulb Length:** 2-1/2" up to 24", bulb diameter 1/4"  
- **Accuracy:** ± 1.0 % of full span  
- **Unique Features:**  
  - External zero adjustment  
  - NEMA 4X (IP 66) weather protection  
  - Guaranteed not to fog  
- **Data Sheet:** TI.30, TI.31, TI.32, TI.50, TI.51, TI.52

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

**Process Grade Bimetal Thermometer**

- **Case size:** 4-1/2" & 6"  
- **Measuring Ranges:**  
  - -320°F (-200°C) up to 1200°F (650°C)  
- **Stem Material:** 316 stainless steel  
- **Bulb 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  
  - Large variety of mounting options available  
  - With integrated thermowell (optional)  
- **Data Sheet:** TI.30, TI.31, TI.32, TI.50, TI.51, TI.52

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

**Process Grade Gas Actuated Thermometer**

- **Case size:** 5"  
- **Measuring Ranges:**  
  - -50°F…300°F (-45°C…150°C)  
- **Stem Material:** 316 stainless steel  
- **Bulb Material:** Stainless steel  
- **Bulb Length:** 2-1/2" up to 72"  
- **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
**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

**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
**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

**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

**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

**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
- **Data Sheet:** TE 15.01

- **Data Sheet:** TR15-2

- **Data Sheet:** TR10-2

- **Data Sheet:** TE 60.40

- **Data Sheet:** TE 15.01

- **Data Sheet:** T32.35
Thermowells

■ 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.

ScrutonWell® Design Option

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

Helical strakes break up the flow and thus impede the formation of a clearly defined Kármán vortex street.
**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
- 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:** 0.04" / < 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
- **Certifications:** SIL 2, CL I Gr.ABCD/CL.II Gr.EFG, Zone 1 II 2G Ex d IIB T3 ... T6 Gb, Il 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.ABCD/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
WMI Magnetic Level with Bypass Chamber

- Dependable level indication for years with little to no maintenance required
- Hundreds of designs available for easy retro-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 Profbus
- 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 (-195°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
- Unique Features: Patented Sanitary design, Complete plastic construction, angular designs available
- Data Sheet: WFS, LM 20.01
Flow Measurement

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
- 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
**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

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**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

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**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
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<td><strong>Load Range:</strong></td>
<td><strong>Load Range:</strong></td>
<td><strong>Load Range:</strong></td>
</tr>
<tr>
<td>0...5 lbs. to 0...100000 lbs.</td>
<td>0...1100 lbs. to 0...45000 lbs.</td>
<td>0...2000 lbs. to 0...750000 lbs.</td>
</tr>
<tr>
<td><strong>Output:</strong></td>
<td><strong>Output:</strong></td>
<td><strong>Output:</strong></td>
</tr>
<tr>
<td>Voltage or current</td>
<td>Voltage or current</td>
<td>Voltage or current</td>
</tr>
<tr>
<td>1.50” to 3” Diameter</td>
<td>20mm to 70mm Diameter</td>
<td>1.50” to 6.63” Diameter</td>
</tr>
<tr>
<td><strong>Accuracy:</strong></td>
<td><strong>Accuracy:</strong></td>
<td><strong>Accuracy:</strong></td>
</tr>
<tr>
<td>±0.1% Repeatability</td>
<td>±2.0% Linearity</td>
<td>±0.05% Repeatability</td>
</tr>
<tr>
<td>Compression Only</td>
<td>±0.20% Hysteresis</td>
<td>Tension/Compression</td>
</tr>
<tr>
<td><strong>Construction:</strong></td>
<td><strong>Element:</strong></td>
<td><strong>Construction:</strong></td>
</tr>
<tr>
<td>Welded Stainless Steel</td>
<td>Thin Film Technology</td>
<td>Welded Stainless Steel</td>
</tr>
<tr>
<td><strong>Feature:</strong></td>
<td><strong>Feature:</strong></td>
<td><strong>Feature:</strong></td>
</tr>
<tr>
<td>150% Safe Overload</td>
<td>ATEX Approval</td>
<td>Hermetically Sealed</td>
</tr>
</tbody>
</table>
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 DSexpress@wika.com.

*Quantity limits apply.

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

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

fast@wika.com • www.wika-fast.com

40% of instruments in a typical processing plant have failed or are about to fail*

*Based on results from more than 250 WiKA instrument audits
For 70 years, WIKA USA 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 USA can be your reliable partner anywhere in the world.