Instrumentation for Water Applications
Pressure and Temperature Measurement
Sealgauge, Cast Iron

The WIKA Sealgauge utilizes a mechanical linkage, which eliminates the need for a system fill fluid. Sealgauges are capable of up to 10 times overpressure and low pressure applications to inches of water column. Sealgauges are built to withstand the corrosive, highly viscous and crystallizing media (gaseous or liquid) typical of water and wastewater treatment plants.

Size: 4", 6"
Case: cast iron
Ring: black painted steel
Diaphragm: 422.12: <30 psi 316 stainless steel; >30 psi Duratherm (Nicro-Alloy) 432.12: 316 stainless steel
Lower housing: carbon steel (422.12); 316 stainless steel (432.12)
Window: instrument glass
Accuracy: ±1.5% of span

Optional Alarm Contact
The WIKA indicating pressure switch combines local pressure indication with alarm and control capabilities into a single, economical and compact system.

Sealgauge, All Stainless Steel

Size: 4", 6"
Case: 304 stainless steel
Ring: 304 stainless steel, polished
Diaphragm: 316 stainless steel, PTFE-lined
Lower housing: 316 stainless steel
Window: laminated safety glass
Liquid filling: none (432.50); glycerine (433.50)
Accuracy: ±1.5% of span

Differential Gauges, Dry or Liquid Filled

700.04
This piston-style differential pressure gauge is designed for use with clean liquid or gaseous media where high differential pressure/static process pressures are required. The 700.04 is suitable for measuring pressure drops across a variety of devices, including filters, strainers, separators and heat exchangers.

Size: 2½", 4½"
Case & bezel: reinforced plastic or aluminum
Sensor housing: 316L stainless steel or black anodized aluminum
Wetted parts: aluminum or 316 stainless steel and ceramic magnet
Window: acrylic or shatter-resistant glass
DP range: 0-5 psid thru 0-100 psid
Working pressure: up to 6000 psig
Accuracy: ±2% of span (increasing)

700.05
This diaphragm-style differential pressure gauge, which eliminates “blow-by”, is suited for use in applications requiring low/medium differential and medium/high process pressure media. The 700.05 is intended for measuring pressure drops across a variety of devices, including filters, strainers, separators, heat exchangers and gas recovery systems.

Size: 2½", 4½"
Case & bezel: reinforced plastic or aluminum
Sensor housing: 316L stainless steel or black anodized aluminum
Wetted parts: aluminum or 316 stainless steel and ceramic magnet
Window: acrylic or shatter-resistant glass
DP range: 0-50" H20 thru 0-100 psid
Working pressure: up to 3000 psig
Accuracy: ±2% of span (increasing), ranges 15 psi thru 100 psi; +5% of span (increasing), ranges 50" H20 thru 300" H20

Legend
Level
Pumps
General Purpose Gauge, Dry

111.10

This gauge is designed for applications where the measured media does not corrode copper alloy. Typical applications are pumps, hydraulic and pneumatic systems and compressors.

Size: 1¼", 2", 2½", 4"
Case: black ABS plastic
Wetted parts: copper alloy
Window: snap-in-acrylic
Accuracy: ±3/2/3% of span

Contractor’s Gauge

111.25CT

This contractor’s gauge is well suited for static applications. The large dial-face provides ease of reading from a distance.

Size: 4½"
Case: stainless steel
Wetted parts: copper alloy
Window: snap-in-acrylic
Accuracy: ±3/2/3% of span

Stainless Steel Case with Brass Wetted Parts, Field Liquid Fillable

212.53/213.53

Type 212.53/213.53 are ideal choices for OEM and general industrial applications requiring an economical dry or liquid filled pressure gauge. Typical applications include pumps, control systems, hydraulic and pneumatic equipment.

Size: 2", 2½", 4"
Case: stainless steel
Ring: polished stainless steel crimped-on
Wetted parts: copper alloy
Window: polycarbonate
Liquid filling: none (212.53); glycerine (213.53)
Accuracy: ±2/1/2% of span (2", 2½"); ±1.0% of span (4")

Heavy Duty Service, Field Liquid Fillable

212.54/213.54

This gauge offers long and reliable service under rugged conditions and is required for heavy-duty service in industrial environments.

Size: 2½", 4"
Case: stainless steel
Bayonet ring: stainless steel twist-on
Wetted parts: copper alloy
Window: laminated safety glass
Liquid filling: none (212.54); glycerine (213.54)
Accuracy: ±1.5% of span (2½"); ±1.0% of span (4")

Large Diameter, All Stainless Steel Gauge

232.50/233.50

The 50 series features construction for protection from harsh environments and corrosive process fluids. The large 6" diameter of the type 232.50/233.50 gauge makes it ideal for applications that require dial reading from a distance.

Size: 2½", 4", 4½", 6"
Case: stainless steel
Bayonet ring: stainless steel twist-on
Wetted parts: 316 stainless steel
Window: laminated safety glass
Liquid filling: none (232.50); glycerine (233.50)
Accuracy: ±2/1/2% of span (2½"); ±1.0% of span (4", 4½", 6")

All Stainless Steel Gauge, Field Liquid Fillable

232.54/233.54

With all stainless steel construction, these industrial gauges ensure long service life in the harshest, most demanding environments. Typical applications include process, chemical, water/wastewater and pollution control equipment requiring high quality, long lasting pressure measurement instrumentation.

Size: 2½", 4"
Case: stainless steel
Bayonet ring: stainless steel twist-on
Wetted parts: 316 stainless steel
Window: laminated safety glass
Liquid filling: none (232.54); glycerine (233.54)
Accuracy: ±2/1/2% of span (2½"); ±1.0% of span (4")

Panel Builder Gauge

233.55

The type 233.55 LBM is specifically designed and manufactured to exact panel builder requirements. With exclusive features, it is ideal when used for panel mount applications in the water industry on pumps, controls and skid systems.

Size: 2½"
Case: stainless steel
Wetted parts: 316 stainless steel
Window: laminated safety glass
Accuracy: ±2/1/2% of span
Diaphragm Seals / Electronic Pressure Measurement

All Welded System (AWS)

**M93X.D1**

The all-welded, tamper-resistant construction is ideal for tightly controlled environmental emissions and safety applications requiring gauge isolation from aggressive or clogging media.

**Gauge:** Refer to 2XX.34

**Seal**
- **Type:** L990.TA
- **Process connection:** 1/2" NPT- male
- **Diaphragm:** 316L stainless steel
- **Body material:** 316L stainless steel
- **System fill fluid:** silicone oil, DC200-10, KN68

Direct Drive System (DDS)

**M932.DD**

The WIKA M932.DD DDS combines the features of a direct drive process gauge with the benefits of a mini-seal. The DDS is the ideal solution for tightly controlled environmental emissions and safety applications.

**Gauge**
- **Type:** 232.34DD
- **Size & case:** 4½" fiberglass thermoplastic
- **Connection:** lower mount
- **Socket & tube:** stainless steel, Inconel X-750, micro-braze
- **Window:** acrylic
- **Accuracy:** ±0.5% of span

**Seal**
- **Type:** L990.TA
- **Process connection:** 1/2" NPT - male
- **Diaphragm:** 316L stainless steel
- **Body material:** 316L stainless steel
- **System fill fluid:** silicone oil, DC200-10, KN68

Plastic Threaded Diaphragm Seal

**L990.31**

Type L990.31 provides instrument isolation for chemical applications not compatible with metal alloys and can be mounted with a gauge (as shown), transmitters or switches.

- **Upper housing:** universal upper housing with polypropylene glass fiber reinforced
- **Lower housing:** PVC-U, PP and PVDF
- **Process connection:** reinforced NPT
- **Diaphragm:** EPDM, teflon-coated on the medium side
- **Maximum working pressure:** 160 psi

Standard Industrial Transmitters

**S-10**

The rugged S-10 pressure transmitters are designed for use in harsh environments where accuracy, reliability and repeatability are critical. Applications include: discharge controls, pump stations, booster pumps, dewatering and grinder systems, blowers and numerous other water operations.

- **Ranges:** 50 inWC to 40,000 psi, vacuum, compound, absolute
- **Output:** 4-20 mA 2-wire, 0-5 V 3-wire, 0-10 V 3-wire
- **Accuracy:** ≤0.25% B.F.S.L.

Standard Industrial with Flush Diaphragm Transmitters

**S-11**

The S-11 flat diaphragm pressure transmitter is designed for applications with sludge, slurry or high viscosity media which may otherwise clog the process connection.

- **Ranges:** 50 inWC to 8,000 psi, vacuum, compound, absolute
- **Output:** 4-20 mA, 0-10 V, 0-5 V
- **Accuracy:** ≤0.25% B.F.S.L.

OEM Transmitters

**A-10**

The WIKA A-10 pressure transmitter is precision engineered and manufactured to fit many industrial and OEM applications. The rugged design provides resistance to vibration, shock, wide temperature variations, RFI and other extreme environmental conditions that are typical of industrial and OEM applications.

- **Ranges:** 15 psi to 15,000 psi
- **Output:** 4-20 mA, 0 - 10 V, 0 - 5 V, others
- **Accuracy:** < (+/-) 0.5% B.F.S.L.

Explosion Proof Transmitters

**E-10/E-11**

The E series transmitters are FM-approved explosion proof for Class I, Division I locations. Utilizing the same thin film technology as the industrial series of transmitters, the E-10 and E-11 are well suited for pump and control systems in enclosed environments where volatile or explosive conditions may exist.

- **Ranges:** 50 inWC to 15,000 psi, vacuum, compound, absolute
- **Output:** 4-20 mA or 1-5V low power
- **Accuracy:** ≤0.25% B.F.S.L.

Legend
- **Level**
- **Pumps**
Submersible Level Transmitters

**LS-10/LH-10**

Submersible level transmitters have a watertight construction suitable for applications in tank level measurement, water/wastewater treatment and reservoir or well depth measurement. They are submersible up to 1,000 feet and the integrated cable can withstand up to 220 lbs of strain.

Ranges: 50 InWC to 400 psi
Output: 4-20 mA, 2-wire
Accuracy: ≤0.25% - 0.125% B.F.S.L.

**Intrinsically Safe Transmitters**

**IS-20**

The IS-20 series of intrinsically safe pressure transmitters are designed for industrial pressure measurement applications in hazardous areas where intrinsically safe ratings are required. Multiple intrinsically safe approvals including FM, ATEX and CSA ensure compliance.

Ranges: 50 InWC to 60,000 psi, vacuum, compound, absolute
Output: 4-20 mA
Accuracy: ≤0.25% B.F.S.L.

**TT.52**

WIKA's unique Twin-Temp thermometers combine the accuracy, reliability and easy-to-read dial of a bimetal thermometer with the precision readout and data acquisition of a thermocouple or RTD sensor. The Twin-Temp puts two temperature sensors to work from one insertion point.

Ranges: -100°F (-70°C) to 550°F (260°C)
Accuracy: +/- 1.0% of span for each sensor
WIKI Instrument Corporation manufactures a complete line of pressure and temperature instrumentation engineered for the water industry. This diagram illustrates how WIKI’s proven products and technology can help ensure reliability at every stage of the water purification and wastewater treatment process.

The color coded selection guide provides easy product identification for the most common pressure measurement requirements in the water industry. Featured products have been selected for their design, durability and tested performance in critical water applications.
For over 60 years, WIKA Instrument Corporation has continuously advanced pressure gauge, transmitter and temperature measurement instrumentation. As the global leader in lean manufacturing, WIKA offers a broad selection of stock and custom instrumentation solutions, which are often available for distribution within days. Producing over 40 million gauges, diaphragm seals, transmitters and thermometers worldwide annually, WIKA’s extensive product line provides measurement solutions for any application. The WIKA sales team, along with its customer service and technical staff members, are ready to share their extensive product and industry knowledge to make your business experience with WIKA productive and progressive.

WIKA provides distinctive service and support to our channel partners and customers:
- Award winning U.S.-based manufacturing, sales and ordering customer service and technical support
- Certified technical specialists who conduct Best Practice Instrument Reviews with performance improvement reports
- An in-house engineering team for product customization and innovation
- Proven capabilities to connect with customer business processes for ordering and inventory management
- Web-based customer service features, including RFQs, literature request and competitor product cross reference