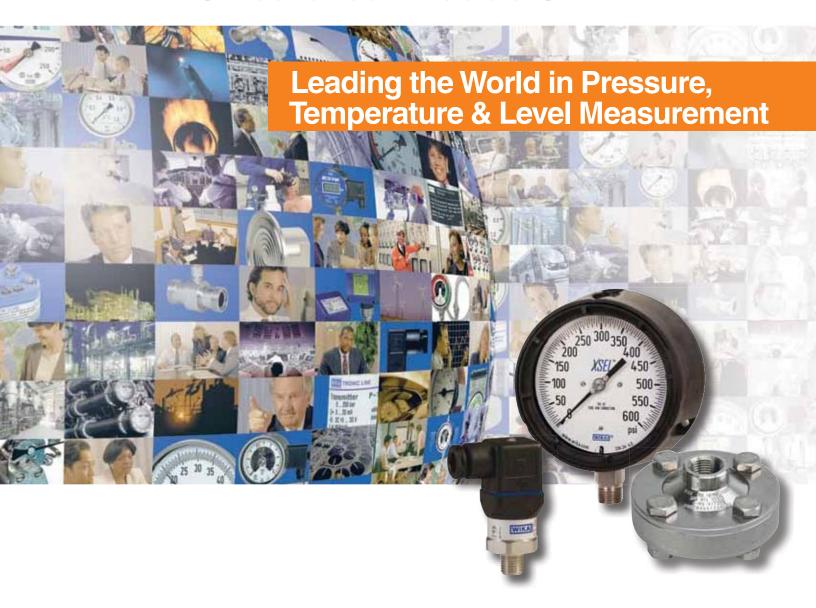
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# **Product Digest**

**WIKA's Featured Products** 





# Why WIKA? WIKA Measures Up!

For over 60 years, WIKA Instrument Corporation has continued to globally advance pressure gauge, sensor and temperature instrumentation technology and applications. As the industry leader in lean manufacturing, WIKA offers a wide variety of stock and customized instrumentation solutions for critical applications that often are distributed within days. Producing over 43 million gauges, diaphragm seals, transmitters and thermometers worldwide annually, WIKA has the most extensive product line in the industry to provide pressure and temperature measurement solutions.

Our staff is ready to share their extensive product and industry knowledge, making your business experience with WIKA more than just buying a commodity. WIKA's commitment to providing customer service at the highest level recently earned the WIKA customer service department the Operational Excellence Award for Leadership from one of North America's leading distributors of industrial maintenance, repair and operation replacement parts.

WIKA's exceptional service to our customers includes:

- U.S.-based manufacturing, sales, customer service and technical support
- Certified technical specialists who perform Best Practice Instrument Reviews for customers and provide performance improvement findings
- An in-house engineering team for product customization and innovation to meet your most challenging application solutions
- Proven capabilities to connect with customers' business processes for ordering and inventory management (supply chain optimization)
- Web-based customer service features (including online quote request, online literature request, competitor product cross reference)
- WIKA online customer center for checking orders, shipping, product availability and lead times



Michael Gerster, President WIKA Instrument Corporation



USA Manufacturing Facility - Lawrenceville, Georgia

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Michael Gerster President

## **WIKA Instrument Corporation**

The WIKA Product Digest features a broad overview of the WIKA product line. In addition to the products highlighted within, WIKA offers thousands of different product configurations delivered with the industry's shortest lead times. Please visit **www.wika.com** for complete product information and datasheets.



#### **Product Digest Highlights**

#### **Mechanical Pressure Measurement**

Page 3

WIKA Mechanical Pressure Gauges represent the industry standard and are designed to provide lasting service in extreme operating conditions when properly applied. WIKA has pioneered many innovations over the years, resulting in a gauge for almost every application.

#### **Differential Pressure Measurement**

Page 8

WIKA Differential Gauges are offered in a wide variety of configurations and operating ranges. Features include rugged machine finished construction, NEMA 4X (standard) and a 7-year warranty.

Pressure Accessories Page 9

WIKA's accessories complete the offering for almost every existing installation requirement. Options include needle valves, gauge cocks, block and bleed valves, snubbers, overpressure protectors, adaptors and couplings.

#### **Electronic Pressure Measurement**

Page 10

WIKA's Electronic Presure Measurement line offers a full array of general industrial and specifically-designed pressure transmitters and transducers to meet the emerging demands of design-in applications and integrated electronic systems.

Diaphragm Seals Page 13

WIKA has many innovative and patented Diaphragm Seal designs for aggressive, clogging and high temperature media applications. WIKA has the right combination of materials and technology to provide lasting instrumentation operating life.

Sanitary Assemblies Page 14

WIKA Sanitary Seals are designed to meet 3A criteria for pharmaceutical, food and dairy, and biotechnology applications.

#### **Mechanical Temperature Measurement**

Page 15

WIKA has a full line of Mechanical Thermometers for process and general industrial temperature measurement, including the industry's only "patented" dampened movement bimetal thermometer. All WIKA thermometers are designed to provide lasting value, accuracy and operating life.

#### **High Precision & Calibration**

Page 18

WIKA offers High Precision Monitors and Calibration Test Equipment for the most demanding accuracy and calibration requirements. Available products include laboratory and point-of-use systems for maintenance, testing, measurement and calibration.

# **WIKA Instrument Corporation**

#### WIKA's LeanSigma® Methodology

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

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

#### The benefits are:

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

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

#### **WIKA's OEM Product Offering**

WIKA manufactures a complete line of OEM instrumentation to support multiple industries including, but not limited to, medical devices, pumps, compressors, beverage dispensing, HVAC, and hydraulic/pneumatic applications. Additionally, WIKA can fabricate unique product configurations to meet design-in applications including dial artwork, which can be customized with any logo, special scales and critical ranges. All artwork generation and dial printing is made-to-order in our Lawrenceville, GA facility.

WIKA OEM customers do not have to order large quantities to receive customized products delivered quickly. WIKA offers flexible stocking options including Kanban, JIT or scheduled deliveries. Special box labeling and bar-coding options are also offered to meet OEM requirements. Please contact us to learn more about our customized instrument and packaging capabilities.

#### **WIKA's Customized Dial Printing Capabilities**

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

#### WIKA's NIST Traceable Calibration Lab



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

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

#### **WIKA's World-Class Customer Care Service**

WIKA's dedication to providing responsive customer care is unparalleled. WIKA's in-house technical team and engineers are available to develop customer-specific solutions. Each employee receives in-depth training on our extensive product lines along with the principles of customer service. Combining engineering innovation, courteous service, quality and timeliness, we have mastered these elements to meet your individual requirements.



**Your Customer Care Team** 

#### **WIKA's Distribution Network**

In combination with WIKA's extensive product line is a vast domestic network of one that is fully-authorized WIKA distributors. Please visit the WIKA website at www.wika.com to locate a distributor nearest to you or who are specialized to your particular industry.

WIKA type 111.10,111.12, 212.54 and 111.25CT gauges are Type 212.53, 213.53, 213.40 and 212.20 (dry only) are designed for applications where the measured media does not corrode copper alloy, and where long, reliable service under rugged conditions is required. Typical applications for these gauges are pumps, hydraulic and pneumatic systems, and compressors.

ideal choices for OEM and general industrial applications requiring an economical dry or liquid-filled pressure gauge. When vibration and/or pulsation are present, the glycerine fill dampens the Bourdon tube and minimizes pointer oscillation, which reduces wear on the gauge movement. Typical applications include hydraulic and pneumatic systems.

#### **General Purpose Gauge, Dry**

#### 111.10, 111.12

#### Size

1½", 2", 2½", 4"

Black ABS plastic

#### Wetted parts

Copper alloy

#### Window

Clear plastic

#### Liquid fill

Not applicable

#### Accuracy

±3/2/3% of span





#### Stainless Steel Case, Brass Internals, Field Repairable, Field Liquid-fill

#### 212.54, 213.54

#### Size

21/2", 4"

#### Case

304 SS

#### Ring

Stainless steel bayonet,

twist-on

#### Wetted parts

Copper alloy

#### Window

Safety glass

#### Liquid fill

Dry (212.54); glycerine (213.54)

 $\pm 2/1/2\%$  of span (2½");  $\pm 1.0\%$  of span (4")

# **Contractors Gauge, Dry**

#### 111.25CT

#### Size

41/2"

#### Case

Stainless steel

#### Wetted parts

Copper alloy

Snap-in-polycarbonate

#### Liquid fill

Not applicable

#### **Accuracy**

±1.0% of span





# 111.1.

Size

#### Case

Forged brass

chrome-plated brass (4")

#### Wetted parts

#### Window

Acrylic

#### **Accuracy**

 $\pm 2/1/2\%$  of span (2½");  $\pm 1.0\%$  of span (4")

#### Stainless Steel Case, Brass Internals, Field Liquid-fillable

#### 212.53, 213.53

#### Size

2", 21/2", 4"

#### Case

304 SS

Polished stainless steel, crimped-on

#### Wetted parts

Copper alloy

#### Window

Polycarbonate

#### Liquid fill

Dry (212.53); glycerine (213.53)

±2/1/2% of span (2", 21/2"); ±1.0% of span (4")

#### Hydraulic Gauge, Factory-filled Case

#### 213.40

### 21/2", 4"

#### Ring Gold-plated ABS (21/2");

Copper alloy

#### Liquid fill

Glycerine

## Stainless Steel Case, Brass Internals, Dry

#### 212.20

#### Size

6"

#### Case

304 SS

#### Ring

Stainless steel bayonet, twist-on

#### Wetted parts

Copper alloy

#### Window

Flat instrument glass

#### Liquid fill

Not applicable

#### Accuracy

±1.0% of span



Featuring all stainless steel construction, these industrial and process grade gauges ensure long service life in the harshest, most demanding environments. Typical applications include process and chemical industries that require high quality precision instruments.

WIKA stainless steel liquid-filled gauges are recognized world-wide as the standard of accuracy and durability for use in fluid power and hydraulic systems. These gauges are ideal for skid systems, panels, compressors and pumps which may produce excessive vibration and pulsation.

#### All Stainless Steel, Small Diameter

#### 131.11

#### Size

11/2", 2", 21/2"

#### Case

304 SS

#### **Bayonet ring**

None

#### Wetted parts

316 SS

#### Window

Snap-in-acrylic

#### Liquid fill

Not applicable

#### **Accuracy**

±2.5% of span



# All Stainless Steel, Field Repairable, Field Liquid-fillable

#### 232.54, 233.54

#### Size

21/2", 4"

#### Case

Stainless steel

#### Ring

Stainless steel bayonet, twist-on

#### Wetted parts

316 SS

#### Window

Safety glass

#### Liquid fill

Dry (232.54); glycerine (233.54)

#### Accuracy

±2/1/2% of span (21/2"); ±1.0% of span (4")

# All Stainless Steel, Safety Case Design, Field Repairable, Field Liquid-fillable

#### 232.30, 233.30\*

#### Size

21/2", 4", 41/2", 6"

#### Ring

Stainless steel bayonet, twist-on

#### Wetted parts

316 SS

#### Window

Safety glass\*\*

#### Liquid fill

Dry (232.30); glycerine (233.30)\*

#### Accuracy

±2/1/2% of span (21/2"); ±1.0% of span (4", 4 1/2", 6")

- \* Note: Case-filled 233.30 available in lower mount connection only
- \*\* Note: 21/2" case size supplied with polycarbonate window

### Panel Builder Gauge, Factory-filled Case

#### 233.55 LBM

#### Size

21/2"

#### Case

304 SS

#### Ring

Crimped tamper-proof bezel

#### Wetted parts

316 SS

#### Window

Safety glass

#### Liquid fill

Glycerine

#### **Accuracy**

±2/1/2% of span



#### 232.53, 233.53

#### Size

2", 21/2", 4"

#### Case

304 SS

#### Ring

Polished stainless steel, crimped-on

#### Wetted parts

316 SS

#### Window

Polycarbonate

#### Liquid fill

Dry (232.53); glycerine (233.53)

#### Accuracy

±2/1/2% of span (2 and 21/2"); ±1.0% of span (4")

# All Stainless Steel, General Service, Field Liquid-fillable

#### 132.53, 133.53

#### Size

4"

#### Case

304 SS

#### Ring

Polished stainless steel, crimped-on

#### Wetted parts

316 SS

#### Window

Polycarbonate

#### Liquid fill

Dry (132.53); glycerine (133.53)

#### Accuracy

±3/2/3% of span



The large 6" diameter of the type 232.50/233.50 gauge makes it ideal for critical applications that require dial reading from a distance. The type 232.34DD Direct Drive Process Gauge features an external re-zero adjustment screw and movementless helical tube design engineered to withstand shock and vibration. Direct Drive gauges are excellent for powergeneration industry applications and is ideal for steam service when properly equipped with a siphon.

All Stainless Steel, Field Repairable, Field Liquid-fillable

#### 232.50, 233.50

#### Size

21/2", 4", 41/2," 6"

#### Case

304 SS

#### Ring

Stainless steel bayonet,

twist-on

#### Wetted parts

316 SS

#### Window

Safety glass

#### Liquid fill

Dry (232.50); glycerine (233.50)

#### **Accuracy**

±2/1/2% of span ( 2½") ±1.0% of span ( 4", 4½" & 6")

Note: 21/2" case size supplied with polycarbonate window



#### 232.34DD\*

#### Size

4½"

#### Case

Yellow fiberglass reinforced thermoplastic

#### Wetted parts

316L SS and Inconel® X-750

#### Window

Acrylic

#### Liquid fill

Not applicable

#### **Accuracy**

±0.5% of span

\*Note: External zero-reset standard



WIKA XSEL™ process gauges and hinged ring gauges are specifically designed for the petrochemical and processing industries. These durable gauges are engineered to provide reliable service in harsh and rugged environments.

#### XSEL™ Process Gauge, Field Liquid-fillable

#### 2XX.34

#### Size

41/2", 6"

#### Case

Black fiberglass reinforced thermoplastic

#### Ring

Threaded thermoplastic

#### Wetted parts

21X.34 - brass; 23X.34 - 316 SS; 26X.34- Monel®

#### Window

Acrylic

#### Liquid fill

Dry (2X2.34); glycerine (2X3.34)

#### Accuracy

±0.5% of span



#### **Hinged Ring Process Gauge**

#### 2X2.25

#### Size

41/2", 6"

#### Case

Black aluminum Ring

#### Black steel, removable

Wetted parts 212.25HR - copper alloy; 232.25HR - 316 SS;

262.25HR - Monel®

#### Window

Flat instrument glass

#### Liquid fill

Not applicable

#### Accuracy

±0.5% of span



#### **Low Pressure Process Gauge**

#### 6XX.34

Size

#### Cac

Black fiberglass reinforced thermoplastic

#### Wetted parts

612.34 - copper alloy; 632.34 - 316 SS; 662.34 - Monel®

#### Window

Acrylic

#### Liquid fill

Available: 40" H<sub>2</sub>O and up

#### Accuracy

±2/1/2% of span



Extremely sensitive and highly accurate, the type 611.10 and type 632.50 capsule gauges are designed to measure very low pressure. They are especially well suited for systems where air or other gases are the measured media, as well as other applications requiring exceptional sensitivity, precision and reliability.

#### **Low Pressure Commercial Capsule Gauge**

#### 611.10

Size 2". 21/2'

#### Case

Black painted steel

#### Wetted parts

Copper alloy

#### Window

Snap-in-acrylic/zero adjustment screw on dial

#### **Accuracy**

±1.5% of span



#### 632.50

#### Size

21/2". 4". 6"

#### Case

Stainless steel

#### Ring

Stainless steel bayonet, twist-on

#### Wetted parts

316 SS

#### Window

Laminated safety glass/zero adjustment screw on dial

#### Accuracy

±1.5% of span

### **Low Pressure Process Gauge**

#### 6X2.34

#### Size 41/2"

#### Case Black plastic

reinforced thermoplastic

Threaded thermoplastic

#### Wetted parts

612.34 - brass 632.34 - 316 SS

#### Window

Acrylic

#### Liquid fill

Silicone (633.34) for ranges 40" WC and up

#### Accuracy

± 2/1/2% of full span per ASME B40.1 Grade A





## Diaphragm

Sealgauge

4XX.50, 4XX.12

Case/upper housing

304 SS (43X.50); Cast iron (422.12, 432.12)

polished (43X.50); Black painted steel

(422.12, 432.12)

**Bayonet ring** 

304 SS.

Size 4". 6"

Carbon steel or 316 SS (422.12, 432.12); 316 SS or **Durathem PTFE-lined** (432.50, 452.50);

#### Lower housing

316 SS. PTFE lined (452.50); 316 SS (43X.50, 432.12); Carbon steel (422.12)

#### Window

Laminated safety glass (432.50, 452.50) Instrument glass (422.12, 432.12)

#### Liauid fill

Glycerine (optional)

#### Accuracy

±1.5% of span





The WIKA Sealgauge is a reliable alternative to the

conventional system of a diaphragm seal and pressure

gauge. It uses a mechanical linkage, which eliminates

the need for a system fill fluid. The Sealgauge is built to

withstand the corrosive, highly viscous and crystallizing media (gaseous or liquid) typical of the process industry. It is ideal for petrochemical, pulp and paper, wastewater treatment and power plants. The Sealgauge comes

standard with 5X overpressure protection and can also

measure pressure as low as 5 InWC.

452.50 1" ASME 150# RF Flanged Connection



432.50, 433.50 Stainless Steel



422.12, 432.12 Cast Iron Case

#### DP Gauge, Low Pressure, air2guide™ P

The air2guide™ P differential pressure gauges are ideally suited to measure very low positive, negative or differential pressure. The unique two-part construction of this gauge allows it to be easily installed and serviced without the need of tools. This gauge is perfect for air handlers, gas scrubbers, containment systems and commercial HVAC systems.

#### A2G-10

Nominal size 41/2"

Case material

Black thermoplastic Sensor housing

Black thermoplastic

Membrane

Silicone rubber

Window material

Clear polycarbonate

Connection

2 x G1/8 female

Ranges

0/0.25"WC up to 0/50"WC

Compound ranges

-0.1/+0.1"WC up to -6/+6"WC

Accuracy

± 3.0% of full span

Standard accessories

Straight or angled 1/8", 3/16" hose barb adaptors,

3 self-tapping case mounting screws





Surface Mount Shown

## DP Gauge, Low Pressure, air2guide™ P+E

This air2guide™ P+E differential pressure gauge combines the mechanical reading with an electronic output signal in a design that is identical to the A2G-10. The very unique two-part construction of this gauge allows it to be easily installed and serviced without the need of tools. This gauge is perfect for air handlers, gas scrubbers, containment systems and commercial HVAC systems.

#### A2G-15

Nominal size

41/2"

Case material

Black thermoplastic

**Output signal** 

4...20 mA, 2-wire system or 0...10 V, 3-wire system

Sensor housing

Black thermoplastic

Membrane

Silicone rubber

Window material

Clear polycarbonate

Connection

2 x G1/8 female

0 ... 0.25" WC up to 0 ... 50" WC

Compound ranges

-0.1/+0.1" WC up to -2/+2" WC

Accuracy

± 3.0% of full span

Standard accessories

Straight or angled 1/8", 3/16" hose barb adaptors, 3 self-tapping case mounting screws

#### intelliGAUGE Series -**Gauges with Analog Output Signal**

The WIKA intelliGAUGES combine reliable mechanical indication with an analog output signal for remote reading and data collection. The intelliGAUGE technology is available from commercial type gauges to process grade gauges, Sealgauges and differential pressure gauges. They are equipped with a non-contact, wear-free sensor.

#### PGT23.063

Size 21/2"

Case 304 SS.

Solid front safety design with blow-out back

Connection

1/4" NPT LM

Wetted parts 316L SS

Window

Safety glass

Ranges

0 ... 15 psi to 0 ... 15,000 psi

**Output signal** 

4 ... 20 mA, 2-wire

Accuracy

+/- 2/1/2% of full scale per ASME B40.1, Grade A

#### switchGAUGE Series -**Gauges with Analog Output Signal**

The WIKA switchGAUGES are based on WIKA's high quality pressure gauges equipped with an integrated alarm contact. Depending on the application and the type of gauge, the cus-(SPS) contacts, Reed Switches or contacts with transistor output (NPN or PNP). All gauges equipped with an inductive contact come standard with ATEX approval Ex II 2 GD c.

tomer can choose between magnetic, inductive or electronic

#### **PGS21**

Size

11/2". 2"

Case

304 SS case and crimped-on ring

Connection

LM (2" only) or CBM

Wetted parts Copper alloy

Window

Clear plastic

1-1/2" - 0 ... 60 psi to 0 ... 6,000 psi 2" - 0 ... 15 psi to 0 ... 6,000 psi

Contact type

Magnetic contact, N/O or N/C factory set (fixed contact set point)

Accuracy

+/- 3/2/3% of full scale per ASME B40.1 Grade B



2" shown

## **Differential Pressure Measurement**

# Differential Pressure Gauge, Piston Style

These piston-style differential pressure gauges are suited for use in applications requiring low/medium differential pressure ranges in combination with high working pressures. The 700.04/05 series is intended for measuring pressure drops across filters, strainers, separators, heat exchangers and gas recovery systems.

#### 700.04 / 700.05

Size

21/2", 41/2"

Case & bezel

Reinforced plastic

700.05 2½"

Sensor housing

316L SS or black anodized aluminum

Wetted parts

Aluminum or 316 SS sensor housing 316 SS spring, ceramic magnet, Buna-N separation diaphragm (700.05) Viton® sealing rings (700.04)

Window

Acrylic or shatter-resistant safety glass

**DP** ranges

0...5 psid thru 0...100 psid (700.04) 0...50" H<sub>2</sub>O thru 0...100 psid (700.05)

Max. working pressure

6,000 psig (700.04) 3,000 psig (700.05)

Accuracy (applied to ascending pressure only)

700.04:  $\pm$  2% of full span

700.05: ±3% of full span (ranges 0...15 psid and up) ±5% of full span (ranges below 0...15 psid)

±5% of span (increasing), ranges 50" H<sub>2</sub>0 thru 300" H<sub>2</sub>0



#### 712.25DP / DX

Size

4½", 6"

Case

Black aluminum

Ring

Black aluminum, bayonet ring

Wetted parts

Copper alloy

Pointer

One black (differential); one black, one red (duplex)

Window

Flat instrument glass

**DP** range

0 ... 15 psid thru 0 ... 1,000 psid

Working pressure

1½ times of full scale

**Accuracy** 

±2/1/2% of span (ASME B40.1 Grade A)



This dual diaphragm / liquid filled sensor element type gauge is designed for applications requiring low / medium differential pressure ranges in combination with high working pressures. The 732.25 is used in a variety of industrial applications, including rotating equipment systems (turbines), flow measurement and for applications in a corrosive environment with liquid or gaseous media. The 732.26 is standard suitable for O2 service and is ideally for cryogenic applications, such as liquid level measurement.

#### 732.25 / 732.26

Size

41/2". 6"

Case

Black powder-coated aluminum or 304 SS (optional)

Bezel

Stainless steel polished

Sensor housing

316L SS

700 05

41/2

Wetted parts

Monel® diaphragm (732.25), 316 SS diaphragm (732.26)

Window

Acrylic or shatter-resistant safety glass

**DP** ranges

0...100" H<sub>o</sub>O thru 0...600 psid

Max. working pressure

3,000 psig (732.25), 600 psig (732.26)

Accuracy

±1% of span

#### Differential Pressure Gauge "Cryo Gauge"

Differential Pressure gauge for liquid level measurement in enclosed tanks, in particular for the cryogenic industry.

#### 712.15

Size

6"

Case

304 SS with front flange SS polished

Connection

1/4" NPT female bottom mount

Wetted parts

Copper alloy measuring cell with 316L compression springs and NBR separating diaphragm

Window

Clear polycarbonate

Ranges

0 ... 30" WC to 0 ... 900" WC

Maximum working pressure

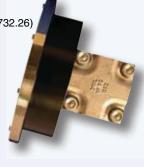
750 psig

Accuracy

+/- 2.5% of full scale

#### Available accessories

3-way manifold with integrated working pressure gauge; single and dual Reed Switches; variety of mounting devices



## **Pressure Accessories**

#### **Pressure Snubbers**

Pressure snubbers dampen pressure oscillations, allowing easy reading of the "average" pressure. They also protect the gauge from damaging pulsation and spikes. Available in brass and 316 SS with porous, piston and throttling types.

#### 910.12.100, 910.12.200, 910.12.300







910.12.300 Throttling

#### **Needle Valves**

Needle valves isolate the pressure gauge from the pressure medium and act as a throttling device. They can also effectively dampen pulsation. WIKA's needle valves are available in standard, mini, block & bleed and multi-port designs.

#### 910.11, 910.11.100, 910.11.200, 910.11.300









#### **Siphons**

Siphons protect instruments from high temperature mediums such as saturated steam. The high temperature steam condenses in the siphon, preventing it from damaging the gauge internals. Available in brass, steel or 316 SS. For horizontal (coil) or vertical (pigtail) installations.

#### 910.15.100, 910.15.200



#### **Gauge Cocks**

WIKA gauge cocks provide an economical method for isolating the instrument from the process. They also provide an adjustable flow orifice and are rated at 200 psi.

#### 910.10







#### Mini-siphon

The WIKA type 910.24 mini-siphon is specifically designed to replace the old pigtail and coil siphon. The mini-siphon has a thermal barrier which protects the pressure gauge from harmful steam, hot vapors and liquids, and contains a unique inner chamber that reduces pressure surges and "water hammer". By mounting the gauge closer to the process, the mini-siphon is designed to eliminate gauge whip and vibration that is typically found on traditional siphons.

#### 910.24



#### Adjustable Over-pressure Protector

Over-pressure protectors protect the pressure gauge from damaging spikes and surges that exceed the rated capacity of the instrument. WIKA over-pressure protectors come in seven selectable ranges from 6 psi to 8,700 psi. Available in 316 SS.

#### 910.13



### **Electronic Pressure Measurement**

#### **General Purpose Pressure Transmitter**

These rugged pressure transmitters are designed for use in harsh environments where accuracy, reliability and repeatability are critical. Applications include hydraulics and pneumatics, and numerous other processing operations.

#### **S-10**

#### Ranges

50 InWC to 15,000 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.



## Flush Diaphragm Transmitter

The S-11 non-clogging flat diaphragm pressure transmitter is designed for applications measuring sludge, slurry or high viscosity media.

**AB** 

#### S-11

#### Ranges

50 InWC to 8,000 psi, vacuum, compound, absolute

#### Output

4-20 mA, 0-5 V, 0-10 V

#### Accuracy

≤0.25% B.F.S.L.



## **High Pressure Transmitter**

The HP-2 is designed for ultra-high pressure monitoring and control applications up to 225,000 psi. It provides accurate, reliable and safe performance when exposed to rapid pressure changes.

**AD** 

#### HP-2

#### Ranges

40,000 psi to 225,000 psi

#### Output

4-20 mA, 0-5 V, 0-10 V

#### **Accuracy**

≤0.25% B.F.S.L.



#### **Precision Pressure Transmitters**

The P-30 provides non-linearity of up to 0.04% of span (B.F.S.L.) for precise measurement in critical applications. Each instrument is provided with a test report at no additional cost. Other test certificates are available.

#### P-30, P-31

#### Ranges

30"-0 HgVac to 15,000 psi

#### Output

4-20 mA

#### **Accuracy**

Up to 0.05% (B.F.S.L.) (terminal based)





#### Field Case Transmitters

Types F-20 and F-21 pressure transmitters feature an integral stainless steel junction box for installation in harsh environments. The F-21 non-clogging flush diaphragm version is designed to measure media containing sludge, slurry or particulates.

#### F-20, F-21

#### Ranges

30"-0 HgVac to 15,000 psi

#### Outpu

4-20 mA, 0-5 V, 0-10 V

#### Accuracy

< 0.25% B.F.S.L.



# Pressure Transmitter with Integral LED Display and Switch Options

The PSD-30 features an integral red LED display that provides three-way adjustability for a wide variety of installation requirements. It is available with PNP or NPN solid state switches for intelligent control applications and meets VDMA standards for ease of programming.

#### **PSD-30**

#### Ranges

Vacuum, compound and gauge ranges up to 8,000 psi

#### Display

Red 4-digit LED, .35" high, 14 segments

#### **Switch points**

Solid state user programmable, NPN or PNP, single or dual



#### **UniTrans®**

The UniTrans® has a turndown capability of up to 1:20, a 0.15% accuracy and an integral temperature sensor. An intrinsically safe version is also available with a HART communications interface (IUT version only).

#### UT-10, UT-11

#### Ranges

5 psi to 15,000 psi

#### Output

4-20 mA

#### Accuracy

≤0.15% B.F.S.L. (pre-turndown)

IUT-10 intrinsically safe version available



## **Electronic Pressure Measurement**

# Hazardous Area Pressure Transmitters

The E series transmitters are CSA, FM-approved explosion-proof for Class I, Division I hazardous environment.

#### E-10, E-11

#### Ranges

5 psi to 15,000 psi, vacuum, compound, absolute

#### Output

4-20 mA or 1-5V low power

#### Accuracy

≤0.25% B.F.S.L.





# E-10

#### **Non-incendive Transmitters**

The N series pressure transmitters are specifically designed for gas compressor systems. These transmitters are engineered to meet Class I, Division 2 non-incendive protection in hazardous environments.

#### N-10, N-11

#### 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.







#### Intrinsically Safe Transmitters

WIKA's intrinsically safe transmitters are FM, ATEX and CSA-approved. They are designed for installation in Class I, Division 1 hazardous locations. The IS-21 features a flat, non-clogging diaphragm designed to measure media containing sludge, slurry or particulates. The IS-20-F has an all stainless steel integral junction box for installation in harsh environments.



#### **Submersible Liquid Level Transmitters**

Submersible liquid level transmitters have a watertight package suitable for applications in tank level measurement, water/ wastewater treatment, and reservoir or well depth measurement. They are submersible up to 1,000 feet.

#### LH-10, LS-10, IL-10\*

#### Ranges

50 InWC to 400 psi

#### Output

4-20 mA

#### Accuracy

0.25% - 0.125% B.F.S.L.



\*Note: Hazardous area approvals only available on Type IL-10.

# LevelGuard Anti-clog Attachment for Liquid Level Transmitters

The LevelGuard is compatible with the LS-10, LH-10 and IL-10 submersible liquid level transmitters. It is designed for use in wet wells, lift stations and other applications where sludge, slurry or turbulence may be present.

#### LevelGuard



# Attachable Loop Powered Local Indicator

The A-AI-1 is designed for use with the 4-pin DIN 43650 "L" plug supplied with Electronic Pressure Measurement Industrial and A-10 4-20 mA output pressure transmitters. User-adjustable digital filtering stabilizes the display during rapid pressure changes.

#### A-Al-1

#### Display

-1,999 to +9,999 user-programmable

#### Output

4-20 mA

#### **Power**

Loop powered with 3 VDC drop

#### **Application**

For use with Electronic Pressure Measurement industrial (S-10, S-11) and A-10 pressure transmitters (with DIN plug)





## **Electronic Pressure Measurement**

#### **General Purpose Transmitter**

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.

#### A-10

#### Ranges

15 psi to 10,000 psi, Vacuum, compound, absolute

#### Output

4-20 mA, 0 - 10 V, 0 - 5 V, others

#### Accuracy

≤ (+/-) 0.5% B.F.S.L.











#### **General Purpose Transmitter**

Featuring a highly stable, temperature compensated and conditioned output signal, the WIKA C-10 is specifically designed to meet OEM requirements. Applications include hydraulics, pneumatics, compressor control, off-road equipment and industrial engine control.

#### C-10

#### Ranges

100 lnWC to 15,000 psi, absolute

#### Output

4-20 mA, 0-5 V, 0-10 V

#### Accuracy

≤0.5% B.F.S.L.



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#### **Refrigeration and Air Conditioning**

The R-1 and AC-1 pressure transmitters are specifically designed for refrigeration and air conditioning pressure monitoring applications. The R-1 features stainless steel construction and a completely welded measuring cell. The economical AC-1 features a brass case and ceramic sensing element. Both provide condensation proof construction for long service life. Minimum order quantities may apply.

#### R-1, AC-1

#### Ranges

100 psi - 850 psi, compound

#### Outputs

4-20 mA, 0-10 V, 0.5 - 4.5 V ratiometric

#### Accuracy

<1% B.F.S.L.



# MH-2 Mobile Hydraulic Transmitter OT-1 General Purpose Transmitter

The MH-2 and OT-1 OEM pressure transmitters incorporate WIKA proprietary thin film sensors for exceptional performance, reliability and extended operating life. They offer an excellent price and performance ratio for OEM applications requiring a large production quantity of transmitters. Custom designs are available for specific OEM requirements. Minimum order quantities may apply.

#### MH-2, OT-1

#### Ranges

100 psi to 8,000 psi

#### Outputs

4-20 mA, 1-5 V, 0-10 V, 0.5-4.5 ratiometric @ 5 V

#### **Accuracy**

≤0.5% B.F.S.L.



#### **PROFIBUS-DP Interface Transmitter**

The D-10-7 and D-11-7 transmitters with accuracies of 0.1 % (or 0.05%) have been designed to enable direct communication to a PC, which is required in the field of test, calibration and service technology.

#### D-10-7, D-11-7

#### Ranges

5 psi to 15,000 psi

#### Output

PROFIBUS-DP (EN 50170)

#### Accuracy

Up to 0.05% B.F.S.L.





#### **CANopen Transmitter**

The D-20-9 is a precision transmitter with CANopen interface. Due to shock and vibration resistance values which comply with industrial standards, it is ideal for fieldbus applications in mechanical engineering, automation and test benches.

#### D-20-9, D-21-9

#### Ranges

5 psi to 22,000 psi

#### Outpu

CAN (DIN / ISO 11898)

#### Accuracy

+≤0.25% B.F.S.L.



# **Diaphragm Seals**

WIKA Diaphragm Seal Systems enable pressure gauges, transmitters, transducers, and switches to be adapted for installation into adverse applications. Diaphragm seals are excellent for applications involving high temperature, corrosive, toxic, abrasive and highly viscous media, and offer a wide variety of exotic materials to ensure complete compatibility with most processes.

Diaphragm seals can be assembled to the pressure measuring instrument directly or remotely through the use of a capillary. Seals are used extensively in industries such as petrochemical, chemical, gas facilities, oil refineries, and pulp and paper mills. They are also widely used in food and dairy processing, water and sewage treatment, and pharmaceutical facilities.

#### Saddle Seal

#### L910.ZA

Instrument connection 1/4" or 1/2" NPT female, capillary

**Process connection** 3" pipe and up

Pressure rating 1,500 psi

Suitable pressure 15 psi to1,500 psi

Wetted parts SST, other consult factory



#### Standard Version, Threaded / Flanged

#### L990.10/12

Instrument connection 1/4" or 1/2" NPT female, capillary

Process threaded connection 1/4" to 1" flanged: 1/2" to 2" RF

#### Pressure rating

Threaded: up to 3,675 psi; Flanged: 150# to 1500# per ASME B16.5

Suitable pressure 15 psi to 3,675 psi

Wetted parts

CS, SST, Monel®, Hastelloy®, Tantalum, Teflon® lining, other-consult factory

#### Flange-type Flush

#### L990.27

#### Instrument connection

1/4" or 1/2" NPT female, capillary

#### **Process connection**

Flanged: 2" to 4" RF

#### Pressure rating

Flanged: 150# to 2500# per ASME B16.5

#### Suitable pressure 10" in H<sub>2</sub>0 to 2500#

per ASME B16.5

#### Wetted parts

SST, Monel®, Hastelloy®, Teflon® lining, Tantalum, other-consult factory

# All-welded System (AWS)

#### M93X.D1

Size 41/2"

#### Case

Fiberglass reinforced thermoplastic

#### Wetted parts

316L SS, Monel®, Hastelloy® C-276

#### Window

Acrylic

1/2" NPT male connection

#### Liquid fill

Silicone, DC200-10

#### **Accuracy**

±0.5% of span

#### **Options**

Consult factory



#### Wafer InLine SEAL

#### L981.10

#### Instrument connection

1/4" or 1/2" NPT female, capillary

#### **Process connection**

Flanged: 1" to 6" RF; wafer

#### Pressure rating

Flanged: 150# to 2500# per **ASME B16.5** 

#### Suitable pressure

10 psi to 6,000 psi

#### Wetted parts

SST, Monel®, Hastelloy®, Teflon® coated, Tantalum, other-consult factory





# **Sanitary Assemblies**

Sanitary seals are designed for applications in the pharmaceutical, biotechnology, and food and beverage industries and to facilitate ease of assembly and disassembly from its mating fitting while minimizing crevices to avoid bacteria growth. The most common sanitary seal and mating fitting are held together via a clamp or union nut. The sanitary seal Tri-Clamp® design meets the criteria set by "3A".

#### Standard Version, Sanitary Tri-Clamp®

#### L990.22

Instrument connection
1/4" or 1/2" NPT female, capillary

Process connection 1½" to 4" Tri-Clamp®

Pressure rating Up to 1,500 psi

Suitable pressure 5 psi to 1,500 psi

Wetted parts SST, other-consult factory



#### Sanitary InLine SEAL

#### L981.22

Instrument connection

1/4" or 1/2" NPT female, capillary

Process connection 3/4" to 4" Tri-Clamp®

Pressure rating Up to 1,500 psi

Suitable pressure 5 psi to 1,500 psi

Wetted parts

SST, other-consult factory



# 3A Sanitary Pressure Transmitters

#### S-10-3A

#### Ranges

5 psi to 1,000 psi vacuum, compound

Output

4-20 mA, 0-5V, 0-10V

Accuracy < 0.25% B.F.S.L.

#### **SA-11**

Ranges

100 InWC to 400 psi, vacuum, compound

Output 4-20 mA

Accuracy ≤ 0.25% B.F.S.L.









#### Sanitary System, Field Liquid-fillable Case

#### M93X.25

#### Size

21/2"

#### Case

Polished stainless steel

#### Ring

Polished stainless steel, crimped

#### Wetted parts

316L SS

#### Window

Polycarbonate

#### **Process connection**

3/4" Tri-Clamp®

#### **Accuracy**

+2/1/2% of span



#### Sanitary System, Field Liquid-fillable Case

#### M93X.3A

#### Size

21/2", 4"

#### Case

Stainless steel, electropolished

## Ring

Polished stainless steel

#### Wetted parts 316L SS electropolished

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#### Window

Polycarbonate

#### Process connection

11/2", 2" Tri-Clamp®, lower or back mount

#### Accuracy

 $\pm 2/1/2\%$  of span (2½"),  $\pm 1.0\%$  of span (4")



# Sanitary Transmitter Assembly F-20-3A

#### F-20-3F

#### Ranges

5 psi to 1,500 psi vacuum, compound

#### Output

4-20 mA

#### Wetted parts

316L SS, electropolished

#### Process connection

 $3\!4$  ",  $11\!\!2$  " up to 4" Tri-Clamp®

#### **Accuracy**

≤ 0.25% B.F.S.L.



# **Mechanical Temperature Measurement**

#### **Process Grade Bimetal Thermometers**

WIKA's bimetal process grade thermometers are suitable for nearly every direct-reading thermometer application. Their durable construction ensures reliable readings and long-lasting service. The superior quality of the WIKA types 30, 31, 32, 50, 51 and 52 is reflected in the seven-year warranty.

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

#### Size

3", 5"

#### Case & stem

304 SS

#### Stem lengths

21/2" to 72" (call factory for lengths over 72")

#### **Case configuration**

Back-connected, bottom-connected adjustable angle

#### Connection

1/2" NPT on 3" and 5" dials (std.)

#### Window

Flat instrument glass

White aluminum; anti-parallax

#### **Pointer**

Black aluminum

#### **Accuracy**

±1.0% of span ASME B40.3 Grade A

Single °F or °C or dual scale

#### Ranges

-100°F (-70°C) to 1000°F (500°C), available in dual scale F&C, Fahrenheit only or Celsius only

#### **External reset**

A slotted hex adjustment head offers screwdriver or wrench use to field calibrate the thermometer

#### Fill policy

WIKA does not recommend continued use of filled instruments at operating temperatures above 400°F(204°C) or below -100°F(-70°C)

#### Hermetic seal

Hermetically sealed per ASME B40.3.; ingress protection IP 65; NEMA 4X; guaranteed not to fog

#### **Immersion**

For accurate temperature readings, immerse stem a minimum of 2" in agitated liquid or 4" in moving air or gas

#### **Options**

Dampened movement; min-max pointer; 3/8" stem; 316 SS wetted parts; safety glass; Lexan® and acrylic windows; silicone fill



#### **Industrial Grade Bimetal Thermometers**

WIKA's industrial grade bimetal thermometers are ideal for a weather resistant application or where a tamper-proof thermometer is recommended. WIKA types 20, 33, 34, 53 and 54 are warranted for one year.

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

2", 3" or 5"

#### Case & stem

304 SS

#### Stem lengths

21/2" to 24'

#### **Case configuration**

Back-connected, bottom-connected

#### Connection

1/4" NPT on 2" dials, 1/2" NPT on 3" and 5" dials; standard; others available

#### Window

Flat instrument glass

#### Dial

White aluminum; anti -parallax

#### **Pointer**

Black aluminum

#### Accuracy

±1.0% of span ASME B40.3 Grade A

Single °F or °C or dual scale

#### Ranges

-100°F (-70°C) to 1000°F (500°C); available in dual scale F & C. Fahrenheit only or Celsius only

#### Hermetic seal

Hermetically sealed per ASME B40.3.; ingress protection IP 65; NEMA 4X; guaranteed not to fog

#### **Immersion**

For accurate temperature readings, immerse stem a minimum of 2" in agitated liquid or 4" in moving air or gas

### **Laboratory Thin Stem Thermometers**

WIKA laboratory thin stem thermometers deliver fast, extremely accurate readings. They are high-quality, economical thermometers designed for laboratory and OEM applications.

#### TI.T17, TI.T20

13/4". 2"

#### Case & stem

304 SS

#### Stem lengths

5", 8", 12", 15", 18"

#### Connection

Plain, 7/16" hex hub with no threads

#### Window

Flat instrument glass Dial

#### White aluminum

Pointer

#### Black aluminum

Accuracy

#### 1.0% full scale value

Scale

Single °F or °C or dual scale

#### Ranges

-100°F (-70°C) to 1000°F (500°C), in dual scale F&C,

Fahrenheit only or Celsius only

#### External reset

Externally adjustable on plain connection

Stem lengths, threaded connections, scales and dial markings, Lexan® window, beaker clip, stem tip



TI.T17

TI.20

Shown with

Dampened

Movement

(DM) option

# **Mechanical Temperature Measurement**

#### **Industrial Glass Thermometers**

WIKA's industrial glass thermometers offer easy -to- read temperature measurement in tough applications. Their molded housings offer excellent rigidity and impact resistance. The glass tube is also shock resistant.

#### TI.701, TI.901, TI.61102, TI.61104, TI.62102, TI.62104

#### **Features**

Blue spirit fill (non-mercury); guaranteed accuracy to within ±1% of scale; spring-mounted glass window to reduce rattles

#### 7" & 9"

Completely adjustable locking case & stem; ranges to 550°F (288°C) in Fahrenheit, Celsius, and dual scale; available with or without thermowell

6'

Available with brass dual-threaded thermowell socket that fits both ½" and ¾" NPT; ranges 40°F (-40°C) to 400°F (200°C) in Fahrenheit, Celsius, and dual scale



#### **Gas Actuated Thermometers**

WIKA gas actuated dial thermometers are easy-to-read and provide excellent performance throughout their ranges. They provide extremely accurate temperature readings from remote locations or mercury-sensitive environments.

#### TI.R45, TI.R60

#### Dial

4½", 6"

#### **Case connection**

Front flange, back flange, u-clamp, phenolic turret, direct reading adjustable angle

#### Connection

Variety of connection systems

#### Capillary lengths

Up to 99'



#### Ranges

-320°F(-200°C) to 1200°F(650°)

#### Options

Dampened movement; bendable extensions up to 18" with sliding union; copper bulb, capillary & braided armor; stainless steel bulb; capillary & spring armor; stainless steel interlocking armor; acrylic or shatterproof glass window

Note: Thermometer pictured with optional thermowell installed.

TI.R45 with Just-Rite connection

#### **Solar Powered Digital Thermometers**

WIKA's solar powered digital thermometer is the ideal instrument where exact readings are required, such as a pilot plant or research & development and industrial applications.

#### TI.80, TI.82

#### Type

TI.80 - center back mount; TI.82- adjustable angle

#### Range

-50/300°F (-50/150°C)

#### Case & stem

304 SS

#### l ens

Glass-standard

#### Connection

1/2" NPT

#### Sensor

Ceramic thermistor requiring 35 lux to operate the 3-volt solar cell



TI.80

#### **Solar Industrial Digital Thermometer**

WIKA's solar industrial thermometer is an excellent alternative

to mercury-in-glass. It eliminates toxic mercury and offers fast, accurate, easy-to-read temperature indications. Retro-fit design is a drop-in replacement for glass thermometers.

#### TI.D01

#### Case

High-impact ABS

#### Range

-50/300°F (-50/150°C)

#### Accuracy ±1% of rea

±1% of reading or 1° (whichever is greater)

#### Sensor

Glass passivated thermistor

#### Lux rating

10 lux (one foot candle)

## **Vapor Actuated Thermometers**

Where critical measurement is within a limited range, a WIKA vapor actuated thermometer is ideal. Rugged and reliable, these instruments are well-suited for refrigeration, drying ovens and plating applications.

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

#### Dia

2", 21/2", 31/2", 41/2"

#### Case style

Front flange, back flange, u-clamp

#### **Process Connection**

Plain, threaded union, thermowell

#### Capillary lengths

Up to 99'

#### Ranges

-40°F (-40°C) to 350°F (176°C)

#### **Options**

Copper bulb, capillary & braided armor; or stainless steel bulb, capillary stainless steel interlocking armor available



# **Mechanical Temperature Measurement**

#### **Twin-Temp Thermometers**

WIKA's unique Twin-Temp thermometer combines the accuracy, reliability and easy-to-read dial of a bimetal or solar digital thermometer with the precision readout and data acquisition capability of a thermocouple or RTD sensor. Twin-Temp provides two temperatures from one insertion point.

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

#### Size

3", 5"

#### Case

Adjustable angle case or back-connected case

#### Stem

1/4" diameter

#### Length

T/C 21/2" to 48"; RTD 4" to 48"

#### Connection

1/2" NPT

#### Range

-100°F (-70°) to 550°F (260°C) in Fahrenheit, Celsius and dual scale. Type K thermocouple or 100 Ohm RTD is standard. Types J, E and T are optional

#### Options

1/4" NPT, explosion-proof housing, straight barrel explosion-proof housing



#### **Pocket Test Thermometer**

Type TI.1005 is a bimetal dial thermometer requiring no power to deliver its quick, accurate readings. The 1" dial is easy-to-read. Stem length is 5". Thermometer includes pocket case which can be used to hold the stem.

#### TI.1005

#### **Accuracy**

±1% of full scale

#### Case

Stainless steel

#### Stem

.142" diameter

#### Length

5"

#### Range

-40/160°F; 0/220°F; 50/550°F

#### **Pointer**

TT.52

Shown with

enclosure head

Aluminum with matte red finish



#### **Thermowells**

Thermowells for temperature instruments are recommended for all processes where measurement is of a corrosive medium, high pressure or high flow application. WIKA thermowells are available from a complete selection of base materials, as well as shields and coatings, and in threaded, flanged, welded and sanitary connections. WIKA thermowells are offered in .260" and .385" bores. WIKA sanitary thermowells meet the criteria for 3A sanitary standard 09-09 requirements. WIKA also manufactures thermowell conversion kits to adapt different thermowells to new types of thermometers.

# TW.FL / TW10, TW.TH / TW15, TW.SW / TW20, TW.WI / TW25, TW.SC / TW30

#### **Process connections**

Threaded, flanged, welded, sanitary

#### Instrument connection

1/2" NPSM standard

#### Shank configurations

Stepped, straight, tapered

#### **Bore diameter**

.260", .385"

#### Materials

Brass, AISI 304, AISI 316, (other materials available)

#### Surface finish

Brass: 60-100Ra; AISI 304 & AISI 316; sanitary: (AISI 304 & 316): 16-32Ra





# **High Precision & Calibration**

WIKA high precision and test gauges are extremely sensitive and highly accurate. They are ideal for instrument shops, gauge repair, calibration labs, testing laboratories and other applications demanding high precision and consistent results. These gauges feature a mirrored band on the dial and a knife-edge pointer to eliminate parallax reading errors.

#### **High Accuracy Test Gauge, Grade 3A**

#### 312.20, 332.30

#### Size

6"

#### Case

304 SS

#### Ring

Stainless steel bayonet, twist-on

#### Wetted parts

312.20 - copper alloy; 332.30 - 316 SS

#### Window

Laminated safety glass

#### Ranges

Vacuum / compound to 200 psi; pressure from 15 psi to 10,000 psi or other equivalent units of pressure or vacuum

#### Accuracy

±0.25% of span

#### **High Accuracy Test Gauge, Grade 3A**

#### 332.54

#### Size

4"

#### Case

304 SS

#### Ring

Polished stainless steel bayonet, twist-on

#### **Wetted parts**

316 SS

#### Window

Laminated safety glass

#### Ranges

Vacuum 30" Hg / 0 /200 psi; pressure from 15 psi to 10,000 psi or other equivalent units of pressure or vacuum

#### **Accuracy**

±0.25% of span

### **Direct Drive Solid-front Test Gauge**

#### 332.34DD

# Size

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#### Case

Red fiberglass reinforced thermoplastic (PBTP)

#### Window

Clear acrylic with Buna-N gasket

#### Ranges

Vacuum / compound to 300 psi Presure form 30 psi to 10,000 psi or other equivalent units of pressure or vacuum

#### Accuracy

±0.25% of span (ASME B40.100 Grade 3A)



#### **High Precision Test Gauge, Grade 4A**

#### 342.11

#### Size

10"

#### Case

Cast aluminum, dark grey

#### Connection

316 SS

#### **Bourdon tube**

Ni-span®

#### Window

Green tinted acrylic, non-reflecting

#### Ranges

Vacuum / compound to 30"Hg / 0 / 200 psi; pressure from 10 psi to 20,000 psi or other equivalent units of pressure or vacuum

#### Accuracy

±0.1% of span

#### **Process Grade Test Gauge, Grade 3A**

#### 332.34

#### Size

41/2"

#### Case

Black fiberglass reinforced thermoplastic

#### Ring

Black fiberglass reinforced thermoplastic

#### Wetted parts

316 SS

#### Window

Acrylic

#### Ranges

Vacuum 30" Hg; pressure from 15 psi to 20,000 psi or other equivalent units of pressure or vacuum

#### Accuracy

±0.25% of span

## Hinged Ring Test Gauges, Grade 3A

#### 332.25, 312.25

# Size 4½"

#### \_

Black painted aluminum with hinged ring cove

#### Wetted parts

316 SS - 332.25, Copper alloy - 312.25

#### Window

Safety glass

#### Ranges

Vacuum 30" Hg / 0 /200 psi; pressure from 15 psi to 10,000 psi or other equivalent units of pressure or vacuum

#### Accuracy

±0.25% of span



# **High Precision & Calibration**

WIKA has calibration test equipment available for temperature or pressure, mechanical or electronic, field use, or use in labs. With EN and N.I.S.T. traceable products, WIKA can provide the required equipment to maintain metrology and calibration laboratories.

#### **Hand-held Pressure Calibrator**

#### **CPH 6600**

#### Ranges

-28" Hg to 30 psi

#### Display

Pressure, temperature and mA output simultaneously

#### **Pump**

Integrated hand pump (300 psi) Integrated electric pump (ranges 30 psi and 150 psi)

#### **Accuracy**

Certified to NIST 0.025%

#### **Features**

Source/measure 4 ... 20 mA and 24 V loop power to power device under test Pt100 RTD input for temperature measurement, accurate to 0.2 °F (measurement only)

#### **Pressure Monitor**

#### CPH 6200

#### Ranges

0...100 mbar to 1...1,000 bar via plug and play transmitters

#### Accuracy

0.2% of full scale (optional 0.1% increased accuracy upon request)

#### Display

7 selectable display units with current shown simultaneously with mA or volts

#### Modes

Available gauge pressure and differential pressure; can also be supplied with ATEX certification EEx ib 11c T4

#### **Pressure Controller**

#### **CPH 6000**

#### Ranges

-30 inHg - 15,000 psi via plug and play transmitters

#### Accuracy

.025% of full scale

#### **Display**

15 selectable display units with current shown simultaneously with mA or volts

#### Modes

Unit is capable of both calibration and switch test

#### **Digital Test Gauge**

#### **CPG 1000**

#### **Pressure units**

Displays in 18 standard pressure units with 1 custom unit

#### **Features**

MIN/MAX, TARE, dampening

#### **Approvals**

CSA/US intrinsically safe, Class 1, Div. 2 Groups A,B, C, & D; CE approved

#### **Accuracy**

±0.05% full scale

#### **Digital Pneumatic Calibrator**

#### 65-2000 Professional

#### Range

-10...100 psi (-0.7...7 bar)

#### Pressure units

psi, mbar, bar, kPa, mHg, mH $_2$ O (4°C), in. H $_2$ O (20°), in. Hg

#### Accuracy

0.02% of reading  $\pm$  3 digits (including linearity, hysteresis and temperature error)

#### **Digital Pneumatic Calibrator**

#### 65-2000 II Professional Plus

#### Range

-10..0..100 psi~ (-0.7...7 bar)

#### Sensor type

Differential pressure (max. 100 psi static)

#### Units

mbar, bar, kPa, mmHg, psi, in. H<sub>2</sub>0 (20°)

#### Voltage measurement

0...± 32 V DC

#### **Current measurement**

0...± 32 mA DC

#### **Transmitter supply**

24 V DC + 5%; max. 30 mA (galv. isolated max. 500 VDC)

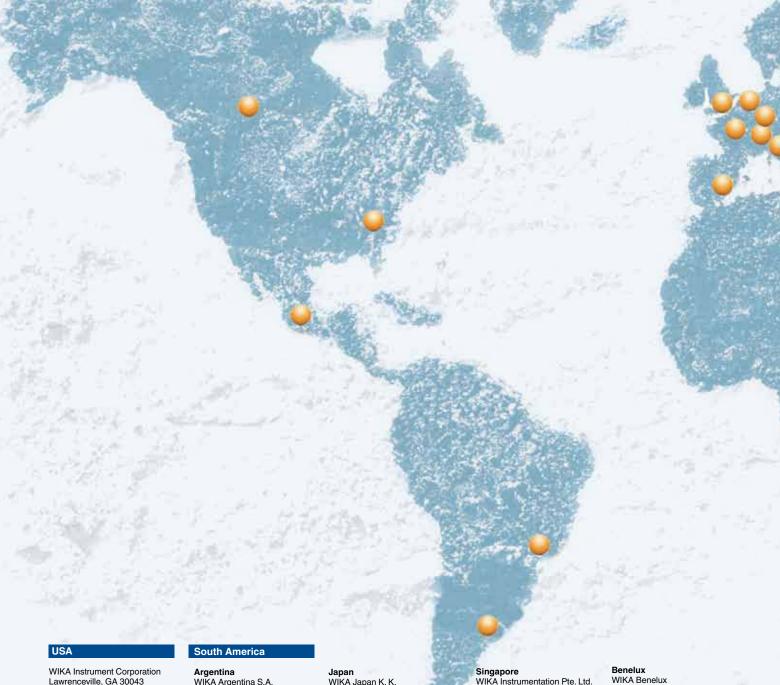
#### **Pneumatic**

Precision pressure regulator (for external pressure supply); pressure hand pump with volume controller for standalone pressure supply

#### **Accuracy**

0.02% of reading  $\pm\,3$  digits (including linearity, hysteresis and temperature error)





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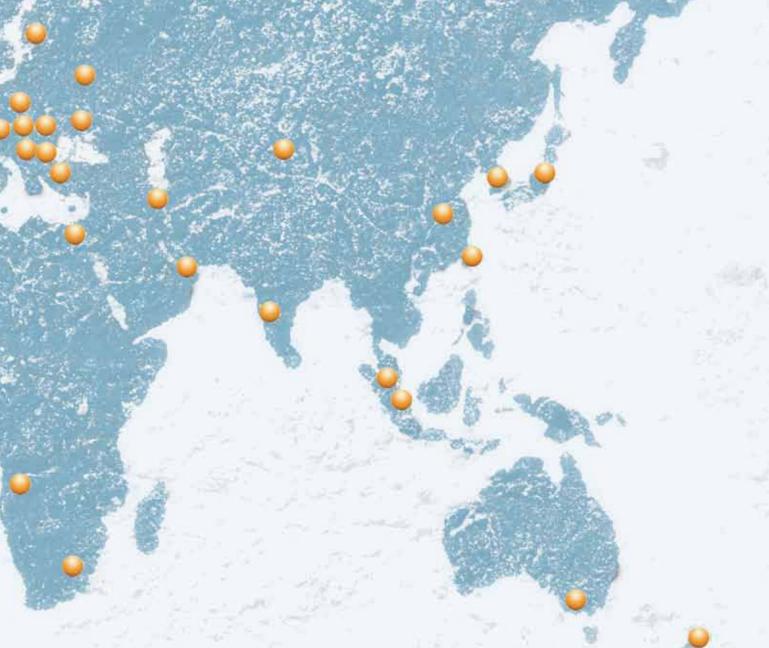
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