

# WINTERS INSTRUMENTS

**PRODUCT  
OVERVIEW**



1953

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**E-COMMERCE  
READY!**

				<b>GAUGES</b>	
					<b>SANITARY</b>
					<b>THERMOMETERS</b>

**MANUFACTURERS OF INDUSTRIAL INSTRUMENTATION**

**FEATURES**

**RANGES**

**APPLICATIONS**

**CUSTOM DIALS**



Winters produces a wide range of custom dials which are available for all makes and models of pressure and temperature instrumentation. All custom dials are manufactured to meet your specifications.

Psi, kPa, kg/cm<sup>2</sup>, cm of H<sub>2</sub>O, feet of water, inches of Hg, mm of Hg, inches of H<sub>2</sub>O, ounces per square inch, atmospheres, bar, mBar, MPa

Colour Safety zones, warning identifications, custom logos, etc.

Where easy to read, highly visible warning zones are required. Non-standard custom scales. Replacement of damaged or outdated dials.

**300 SERIES**



Cast aluminum cases. 4.5" (115mm) to 10" (250mm) dial sizes. Slip on or threaded bezel rings. Brass or stainless steel internals. Stem, wall or panel mounting. ±0.5% accuracy.

Vacuum through 20,000 psi/kPa. Other ranges are also available upon request.

Steam, air, oil, fresh & salt water, freon & other pressure media.

**BRASS CASE**



2.5" (63mm) dial size with 1/4" NPT bottom or back connection. Rugged forged brass case with brass internals. 316 stainless steel, bezel ring. Glycerin filled. Removable restrictor screw. 1.5% accuracy

Available in all standard ranges from vacuum to 10,000 psi/kPa.

Suitable for applications that require a durable liquid filled gauge not corrosive to brass.

**DIFFERENTIAL / DUPLEX**



Cast aluminum cases. Brass or stainless steel internal systems. Two matched bourdon tubes. 4.5" (115mm) or 6" (150mm) dial sizes. ±1% accuracy.

Differential - Single Pointer  
Duplex - Two pointers.

Available in all standard ranges.

Differential - Single pointer gauges for measuring pressure difference between two pressure sources.

Duplex - Two pointer gauges for displaying two different but related pressures on the same dial.  
e.g. for use on pumps and filters.

**COLOUR CODED**



Polybutylene Terephthalate Colour Coded Case and Bezel. Available in 16 different colours. Brass or stainless steel internal system. Available in 4" (100 mm) & 6" (150 mm) dial sizes. ±1% accuracy.

Available in all standard ranges up to 20,000 PSI/kPa.

Suitable for use on pumps, compressors, hydraulic presses and machinery, pipelines, oil refineries, etc. Utilized to identify situations relating to safety. Available with Safety Case.

**HOMOGENIZER**



3A Approved. One piece all stainless steel construction. Designed specially for sanitary applications in the food industry. 4" (100mm) dial. ±1.6% accuracy. Glycerin fillable. Block available.

0 - 5,000 psi/kPa  
0 - 10,000 psi/kPa.

Designed specially for sanitary applications in the food industry.

**LIQUID FILLED**



Glycerin filled (or dry). 1.5" (40mm), 2.5" (63mm), 4" (100mm), 6" (150mm) & 10" (250mm) dial sizes. Stainless Steel case. Brass or stainless steel socket /tube. Bottom or back connection, front and back flanges, u-clamps. ±1% to ±2.5% accuracy. Premium & Quality Series.








Vacuum to 20,000 psi/kPa. Other ranges also available upon request.

Pumps, compressors, hydraulic presses & machinery, motors, winches. Where vibration occurs & pressure fluctuates constantly.

## FEATURES

## RANGES

## APPLICATIONS

<p><b>LOW PRESSURE / SCHAEFFER</b></p> 	<p>Diaphragm type gauges.  <b>Low Pressure:</b> 2.5" (63mm), 4" (100mm), 4.5" (115mm) &amp; 6" (150mm) dial sizes. Brass or stainless steel internals/sockets  <b>Schaeffer:</b> 4" &amp; 6" dials, stainless steel case, internals and socket.  <b>Accuracy:</b>  <b>Low Pressure:</b> ±1%  <b>Schaeffer:</b> 1.5%</p>	<p><b>Low Pressure:</b>            0 - 15" up to 0 - 100" of water Vac.            0-15" up to 0-200" water/oz            0 - 5 up to 0 - 10 psi/kPa            Other ranges including vacuum also available.  <b>Schaeffer:</b>            0-10" up to 0-300" water/oz            0-10 up to 0-300 psi/kPa</p>	<p><b>Low Pressure:</b> For the measurement of low pressures of liquids and gases. Ideal for air flow indicators, liquid level indicators and draft gauges.  <b>Schaeffer:</b> Measures low positive pressure in an aggressive &amp; highly corrosive environment. Ideal for oil refineries, chemical plants &amp; many other industrial applications.</p>
<p><b>PROCESS GAUGE</b></p> 	<p>4.5" (115mm) dial size. Engineered reinforced thermoplastic case with integral back flange. Liquid filled or dry. Field fillable. Safety case, solid front, blow out back. Available with brass or stainless steel internals. ±0.5% accuracy.</p>	<p>Vacuum to 20, 000 psi/kPa. Other ranges also available upon request.</p>	<p>Steam, air, oil, fresh &amp; salt water, freon &amp; other pressure media.</p>
<p><b>SAFETY CASE</b></p> 	<p>4" (100mm) dial size. Features solid separating front wall and blowout back. 304 stainless steel case with stainless steel blow out back or colour coded (P.B.T.) case and blowout back plate. Brass or stainless steel internals. ±1% accuracy.</p>	<p>Vacuum to 20, 000 psi/kPa. Other ranges also available upon request.</p>	<p>Designed for heavy industrial applications where operator safety is a factor including; Chemical and petrochemical processing, food, beverage, pharmaceutical, conventional and nuclear power plants.</p>
<p><b>SANITARY 3A</b></p> 	<p>3A Approved. Rugged stainless steel construction. Glycerin filled to reduce wear due to pulsation and vibration. 2.5" (63mm) to 4" (100mm) dial sizes. 4" dry available (autoclavable). ( ±1% accuracy, recalibrator screw available on 4"). <b>New Premium 4"</b> Bottom connection only: +/- 0.75% accuracy. External recalibrator screw.</p>	<p>0 - 30 psi/bar            0 - 60 psi/bar            0 - 100 psi/bar            0 - 160 psi/bar            0 - 200 psi/bar            0 - 300 psi/bar            0 - 600 psi/bar            Compound ranges            Special ranges upon request.</p>	<p>Tri-Clamp fitting for special requirements in the dairy, food processing, pharmaceutical, ink and chemical industries.</p>
<p><b>STABILIZER GAUGE</b></p> 	<p>4.5" (115mm) dial size. Engineered reinforced thermoplastic case with integral back flange. Safety case, solid front, blow out back. Available with brass or stainless steel internals. ±0.5% accuracy.</p>	<p>Vacuum to 20, 000 psi/kPa. Other ranges also available upon request.</p>	<p>Where high vibration or high pulsation exist.</p>
<p><b>TEST GAUGES</b></p> 	<p>6" (150mm) dial. ±0.25% accuracy. 4" (100mm) dial. ±0.5% accuracy. Stainless steel case, beryllium copper tube, brass socket and systems, NIST traceable test certificate standard. Other configurations available.</p>	<p>15 psi to 10,000 psi.</p>	<p>Laboratories or instrument testing where accuracy is important.</p>
<p><b>90 SERIES</b></p> 	<p>1 1/2" (40mm), 2" (50mm), 2 1/2" (63mm) &amp; 3 1/2" (90mm) dials. Steel case, screw on plastic ring and acrylic lens. Bronze soldered / brass internals. Recalibrator screw standard. U-Clamp version available. 2-1-2% of full scale accuracy</p>	<p>Vacuum to 5, 000 psi/kPa. Other ranges also available upon request.</p>	<p>Air, oil, water, other pressure media which have no effect on bronze.</p>

**FEATURES**

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**100 SERIES**



3.5" (90mm), 4" (100mm), 4.5" (115mm) and 6" (150mm) dial sizes. Black steel or cast aluminum cases. Brass system. Direct, wall or panel mounting. ±1% accuracy.

Vacuum through 5,000 psi/kPa & compound ranges.

Measurement of steam, oil, air, water and other pressure media which have no effect on brass.

**CONTRACTOR**



4.5" (115mm) dial size. Stainless steel case and ring. Brass movement, tube and socket. ±1% accuracy.

Vacuum through 5,000 psi/kPa.

Heating, plumbing, air conditioning and ventilating equipment manufacturers and contractors.

**FREON**



2.5" (63mm), dial sizes, red and blue plastic cases. (or steel cases). 2.5" (63mm) liquid filled available. Flutterless movement and restrictor screw. 4" (100mm) dial size with black drawn steel case. 6" (150mm) dial size with steel case. Brass tube & socket. ±1%-±2% accuracy.

30" - 0 - 120 psi  
30" - 0 - 300 psi  
0 - 500 psi with freon scales. Other ranges also available upon request.

For the measurement of pressure & vacuum in freon/refrigeration systems.

Note: Blister packaging available

**SPRINKLER**



3.5" (90mm) dial size. Steel case with brass internals. ULC listed. Dials are indicated by "AIR"/"WATER". ±1.5% accuracy.

0 - 250 psi/kPa.

Sprinkler systems.

**WELDING**



2" (50mm) or 2.5" (63mm) dial size. Polished brass case. U.L. approved (4000psi). 1/4" NPT bottom connection. ±3-2-3% accuracy.

0 - 30 psi/kPa  
0 - 100 psi/kPa  
0 - 200 psi/kPa  
0 - 400 psi/kPa  
0 - 4000 psi/kPa  
Other ranges upon request.

Designed for oxygen and acetylene service on welding tank regulators. High pressure gauge measures tank pressure. Low pressure gauge measures regulator operating pressure.

**ECONOMY**



Steel or plastic case. Sturdy and competitively priced. Brass systems. 1.5" (40mm), 2" (50mm), 2.5" (63mm), 4" (100mm) dial sizes. Bottom and back connections. ±3-2-3% accuracy.

Vacuum through 5000 psi/kPa. Compound and other ranges are available upon request.

Measurement of steam, oil, air, water and other pressure media which have no effect on brass.

**PANEL MOUNTED ECONOMY**



1.5" (40mm), 2" (50mm), 2.5" (63mm) dial sizes. Black steel cases and brass systems. Sturdy and competitively priced. U-clamp connections. ±3-2-3% accuracy.







Vacuum to 300 psi/kPa.

Measurement of steam, air, oil, water & other pressure media which have no effect on brass.

## FEATURES

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<h3>ECONOMY TEST GAUGE</h3> 	<p>Available in 2" (50mm) &amp; 2.5" (63mm) dials, steel case, brass internals <math>\pm 3-2-3\%</math> accuracy.</p>	<p>Various ranges from 0-15 psi/kpa to 0-300 psi/kpa.</p>	<p>Testing of water, gas, air &amp; other pressure media.</p>
<h3>SPIRAL TUBE GAUGE</h3>  <p><b>NEW Sizes!</b></p>	<p>1" (25mm), 1 1/8" (30mm), 1.25" (32mm) or 1.5" (40mm) dial size. Stainless steel case, copper or stainless steel system, watertight. 1/8" NPT or 1/4" NPT back connection. Colour zones available. UL listed (1.25" (32mm) or 1.5" (40mm) only) for range &lt;1000 psi &amp; 3000 psi) 3-2-3% accuracy</p>	<p>0 psi to 5000 psi.</p>	<p>Fire extinguishers, pumps, compressors, oxygen regulators and any application that requires a compact economical pressure gauge.</p>
<h3>DIAPHRAGM SEALS</h3> 	<p>Stainless steel diaphragms and housings available in 1 or 2 piece construction. Various other type of materials available (e.g. Monel, Teflon, PVC, etc.) Flanges available in all sizes from 1", wide range of materials and connections.</p>	<p>Accommodates all ranges.                      #80 150#RF - 300#RF                      #70 30" vac to 2500 psi/kPa                      #50 100 to 1000 psi/kPa                      #40 0 to 1000 psi/kPa                      #30 1000 to 6000 psi/kPa                      #20 30 to 1000 psi/kPa                      #15 50 to 5800 psi/kPa                      #10 30" vac to 200 psi/kPa</p>	<p>Protects pressure indicators from harmful process fluids. Any application where the process fluid is corrosive or is viscous and would clog gauge internals or would solidify within the pressure gauge. (Flanged diaphragm seals are bolted to a pipe, etc. rather than being attached using a threaded connection.)</p>
<h3>ACCESSORIES</h3> 	<p><b>Needle Valve</b> - brass or stainless steel 1/4" NPT F x F.  <b>St/St Needle Valve</b> - 316 stainless steel or carbon steel body, 1/4" &amp; 1/2" FxF, MxF  <b>Over Pressure Protector</b> - stainless steel, 1/4" or 1/2" M x F, Piston and Bellows type  <b>Snubber</b> - brass or stainless steel, heavy oil, air or water 1/4" or 1/2" NPT F x M.  <b>Syphons</b> - steel or stainless steel coil 1/4" or 1/2" NPT.  <b>Mini Ball Valve</b> - brass or stainless steel 1/4" NPT F x M.  <b>Cooling Tower</b> - 316 stainless steel 1/2" or 1/4" NPT M x F</p>	<p><b>Brass Needle Valve:</b> up to 400 psi.  <b>St/St Needle Valve:</b> Soft Seat: 6,000 psi, Hard Seat: 10,000 psi  <b>Over Pressure Protector:</b> Bellows: 3-20 psi to 15-90 psi                      Piston: 90-230 psi to 1450-5800 psi  <b>Snubber:</b> brass up to 10,000 psi                      St.-steel up to 20,000 psi.  <b>Syphons:</b> various.  <b>Mini Ball Valve:</b> up to 400 psi.  <b>Cooling Tower:</b> Max. operating pressure 50,000 psi</p>	<p><b>Needle Valves:</b> to control flow.  <b>Over Pressure Protector:</b> protect instrument against surges and pulsations.  <b>Snubber:</b> to dampen fluctuating or shock pressures.  <b>Syphons:</b> to reduce media temperature.  <b>Mini Ball Valve:</b> economical isolation valve.  <b>Cooling Tower:</b> protect instruments from high temperature applications</p>
<h3>PRESSURE TRANSMITTERS</h3>  <p>CE</p>	<p>Versatile instrument utilized in many applications.                      -Rugged stainless steel or brass construction.                      -CE, NEMA  <math>\pm 0.25\%</math> accuracy.</p>	<p>Various ranges up to 10,000 psi.</p>	<p>-Industrial machinery                      -Hydraulics &amp; Pneumatics                      -Compressor controls                      -Boilers, chillers                      -Air conditioning &amp; refrigeration.</p>
<h3>CLEAN-IN-PLACE TRANSMITTER</h3>  <p>CE</p>	<p>Meets 3A standards for food and beverage processing, dairy and pharmaceutical environments. Designed for Clean-in-Place (CIP) and Steam-in-Place (SIP) environments. No fill oils. 3A &amp; CE approved.</p>	<p>27 in/H2O - 1000 psi.</p>	<p>Food and beverage processing, dairy, pharmaceutical, liquid level control.</p>

ECONOMY GAUGES

ACCESSORIES

ELECTRONICS

## FEATURES

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**DIFFERENTIAL PRESSURE TRANSMITTERS**

CE

Designed for wet to wet differential pressure measurements of liquids and gases. Fast response sensor and signal conditioned electronic circuitry provide accurate readouts.  
±0.25% accuracy.

All standard ranges up to 5000 psi.

Hydraulics and pneumatics, pumps and compressors, pressure drop across filters flow measurement of gases & liquids, liquid level measurement of pressurized vessels.

**EXPLOSION-PROOF TRANSMITTER**

**Explosion Proof** ---- factory installed and calibrated inside aluminum enclosure designed specifically for explosion proof & weatherproof service.

Standard ranges 0-15 psi/kpa up to 10000 psi.

Natural gas line, chemical processing, off-shore drilling platforms, grain processing, mining, refineries.

**SANITARY / HOMOGENIZER PRESSURE TRANSMITTERS**

A CE

CE

Stainless steel, NEMA 4X rated.  
4 - 20 mA, 6m (20 ft.) cable connection.  
±0.5% accuracy.

Tri-clamp, 75" H<sub>2</sub>O to 1000 psi  
Homogenizer, 0 to 15,000 psi.

Tri-clamp® fitting for special requirements in the dairy, food processing, pharmaceutical and chemical industries.  
Homogenizers, slurries or viscous materials. Sanitary connections.

**SUBMERSIBLE PRESSURE TRANSMITTER**

CE

Instruments designed to provide an economical solution to level and depth measurement (e.g. fully submersible)  
±0.25% accuracy.

0-83in/H<sub>2</sub>O up to 0-500 psi.

Level and depth measurement, waste water treatment, irrigation systems, environmental monitoring.

**DIGITAL INDICATOR**

Various models available (Premium, Quality & Economy) including digital panel meter/controller/process meter and two-wire current-loop indicator.  
CE & NEMA 4, FM approval available.

Display varies with model.

Temperature control/monitor /alarm, Industrial & HVAC applications that require an indication.

**SANITARY/INDUSTRIAL RTD**

A

1-1/2", 2", 2-1/2", 3" Tri-Clamp® connections.  
4 - 20 mA, 1/4" probe, 2 1/2", 4", 6" stems.  
Polypropylene, stainless steel or aluminum heads.

®Tri-Clamp is a registered trademark of Tri-Clover

-50 to 200°C (-58 to 400° F).

Sanitary Tri-Clamp® RTDs are used in food, dairy, beverage, pharmaceutical and chemical processing applications.  
Industrial RTDs are utilized in Industrial & HVAC applications (eg. Petrochemical, liquid oxygen measurement, etc.)

**ELECTRIC CONTACT**

Single and double contacts available on 6" (150mm) case. Black steel case, brass system. Externally adjustable.

Standard ranges :  
Up to 20,000 psi/kPa








Other ranges available upon request.

Any application where an electrical device is to be activated or deactivated based on a pre-set pressure or pressures.  
Single: can make contact on either High or Low movement of pointer.  
Double: operates on both High and Low pointer movement.

## FEATURES

## RANGES

## APPLICATIONS

<p><b>2WPS</b></p> 	<p>Snap-Action Pressure Switch. Standard construction features a rugged aluminum bar stock body and base. Constructed with materials which make them compatible with most liquids &amp; gases. 1/2" NPT Conduit. 1/4" NPT Pressure Port.</p>	<p>Standard ranges from 30" Hg/Vac through to 2500 PSI.</p>	<p>Tank and compressor level and precision control. Hydraulic systems. Pumping controls. Hazardous area lift station controls. Good for both low and high pressure.</p>
<p><b>6WPS</b></p> 	<p>Four independently adjustable set points. NEMA 4X, 12 or NEMA 7/9 enclosures. The ability to put four separate contacts at different set points allows a single pressure switch to have both high and low pressure alarms as well as high &amp; low pressure shutdowns all in one package. 3/4" NPT Conduit Outlet, 1/4" NPT Pressure Port, 1/4" NPT Connection.</p>	<p>Standard ranges 0- 15 to 0-5,000 PSI</p>	<p>Multiple tank or pump controls. Alarm purposes.</p>
<p><b>INDICATING PRESSURE SWITCH</b></p> 	<p>4" (100mm) dial, stainless steel case, brass or stainless system, bottom or back connection. ±2.5% accuracy.</p>	<p>0-15 psi/kPa to 0-10000 psi/kPa.</p>	<p>Automatic regulation of hydraulic and pneumatic equipment anywhere a visual reading is required.</p>
<p><b>NON-CONTACT THERMOMETER</b></p>  <p><b>New!</b></p>	<p>ABS housed Infrared thermometer with dimensions 5.8" (h) x 4.1" (w) x 1.68" (d) (148mm x 105mm x 42mm) 0.25 second response time. Field of view is 10:1 with laser mark. 6-14 μm sensor thermopile. Accuracy is 2% of reading. (9 volt battery incl.)</p>	<p>-22 to 1022 °F (-30 to 550 °C)</p>	<p>Plant maintenance, HVAC Systems, Automotive, Roads and Construction, Chemical &amp; Petrochemical, Research Labs.</p>
<p><b>BI-METAL / HVAC BI-METAL SOLAR DIGITAL BI-METAL THERMOMETERS</b></p>  <p><b>New!</b></p>	<p>Available with 1" (25mm), 2" (50mm), 3" (75mm), 3.5" (90mm), 4" (100mm) 5" (125mm) and 6" (150mm) dial sizes. Various connection and material available. Recalibrator screw standard on 5" dial. 2" brass separable well available on certain models. ±1% accuracy.</p>	<p>Temperature ranges through -70°C to 550°C (-100° to 1000°F) in C, F or C/F scale.</p>	<p>All types of Industrial or HVAC applications. Where vibration exists, liquid fill is available to dampen the pointer movement on bi-metal thermometers.</p>
<p><b>HOT WATER THERMOMETERS</b></p> 	<p>2.5" (63mm) dial, aluminum case, chrome ring. 2" stem, 1/2" NPT brass thermowell. 200mm (8") scale type red organic liquid, 2" stem, 1/2" NPT brass thermowell, angle or straight. ±1% accuracy.</p>	<p>0° - 120° C / 30° - 250° F 5° - 135° C / 40° - 280° F</p>	<p>HVAC and Industrial applications where inexpensive instruments are required.</p>
<p><b>INDUSTRIAL THERMOMETER</b></p> 	<p>4.5" (115mm), 5"(125mm) 6"(150mm) or 9"(225mm) scale size. Available with union connection, sockets or duct flanges. Straight, Angled or Vari-angle models available. Brass thermowell standard, stainless steel available. ±1% to ± 2% accuracy. Valox® or (Aluminum) Case.</p>	<p>-40° to 40° C / -40° to 110° F -5° to 80° C / 20° to 180° F -15° to 50° C / 0° to 120° F -15° to 70° C / 0° to 160° F 0° to 80° C / 30° to 180° F 0° to 115° C / 30° to 240° F 0° to 150° C / 30° to 300° F 10° to 200° C / 50° to 400° F.</p>	<p>All types of Industrial and HVAC applications.</p>

## FEATURES

## RANGES

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## REMOTE READING THERMOMETER



Gas or vapour filled remote or direct reading thermometers for wall, panel or direct mounting. Dial sizes from 2" (50mm) to 10" (250mm). Copper braided, stainless steel or plastic coated capillary of any length. Brass or stainless steel systems.  $\pm 0.5\%$ - $\pm 2\%$  accuracy.

Standard ranges available in  $^{\circ}\text{C}$ ,  $^{\circ}\text{F}$  or  $^{\circ}\text{C}/^{\circ}\text{F}$  scale.

All types of HVAC & Industrial applications requiring accurate and uniform response over entire range. Any application where a remote indication is preferred.

## SOLAR DIGITAL



Available in 2" (50mm), 2.5" (63mm) dial sizes. Easy to read liquid crystal display. Front flange, plain bulb. Variable angle model consists of 2.55" x 4.67" sensing display readout. Switchable F/C temperature range.  $\pm 1\%$  accuracy. 3.5" or 6" stem.

Dial Type:  
50mm (2") dial available in -40° to 70° C/F. 63mm (2-1/2") dial available with -50° to 150°C & -58° to 302°F.

Ideal for any application requiring fast and accurate temperature readings.

Variable Angle:  
-50° - 320°F (-45° - 160°C)

## TRIDICATORS



2.5" (63mm) & 3" (75mm) dial sizes, dual scale, steel case. Stainless steel ring (3") 1/4" & 1/2" NPT back or bottom connected.

30° to 240° F, 60° to 320° F & 0 - 75 psi, 0 - 100 psi & 0 - 200 psi. Special ranges available upon request.

Boilers, heating systems. Measuring both pressure and temperature on one dial.

## THERMOWELLS



Brass or stainless steel construction. Other materials available upon request. Many different stem lengths, connections and configurations.

Standard and custom sizes available for all types of thermometers.

All types of industrial applications requiring a "sealed system" (e.g. tanks, pressure lines etc.).

**NEW MODELS:** Flanged, Weld-In, Socket Weld and Test

## Test Certificate, Repair Centres, &amp; Warranty

Winters offers a full service repair facility which is capable of repairing most manufacturer's thermometers and gauges. Estimates are available. Winters will certify the accuracy of the instrument with a National Standards Council test certificate.

*Ask us about our new 5-3-1 warranty. The Best Warranty In The Business, Period.*

Continuous product improvements may result in specifications being changed without notice.

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