## **VACUUM** Vacuum Gauges Calibrated in mbar

All of our vacuum instruments can be provided with displays and analog outputs reading directly in mbar. To specify a Vacuum Research gauge calibrated in mbar simply add the suffix "mbar" to any of our gauge p/n's. There's no extra cost and all specifications other than the unit of measure are the same as those shown in this catalog for our gauges calibrated in Torr. The transducers and gauge tubes used with Torr and mbar instruments are identical and do not require any suffix.

Wide Range Diaphragm Manometer	Pirani Gauge
I X 10-3 to 2000 mbar (1 mTorr to 1500 Torr)Ordering Information and Complete Specifications on Page 8Large Easy-To-Read Green LED Display in 1/4 DIN Enclosure. Two Set Points With 3 Amp, 220 V Relays. 4 Set Points Optional.Wide Range Gauge Display Units: Digital display unit with 2 set points and 2 analog outputs; 1/4 DIN cabinet. Transducer not included. P/N: 902075-mbar	<ul> <li>.01 X 10<sup>-3</sup> to 10<sup>-1</sup> mbar (0.01 to 100 mTorr)</li> <li>Ordering Information and Complete Specifications on Page 14</li> <li>± .01 x 10<sup>-3</sup> mbar resolution over entire range. Replaces Cold Cathode or Penning Gauges. Linear 0 to 1 VDC analog output, 4 to 20 mA and 0 to 10 VDC outputs optional.</li> <li>Dual Set Point Controller with digital display in 1/4 DIN enclosure. Built to CSA standards. Gauge tube not included. P/N: 902096-mbar\$823.</li> <li>Digital Indicator only in 1/4 DIN enclosure. Built to CSA standards.</li> </ul>
and 4-20 mA. Built to CSA standards. Transducer not included. P/N: 902126-mbar\$1,046.	Gauge tube not included. P/N: 902095-mbar
Diaphragm Manometer	Pirani Gauge
I to 2000 mbar (1 to 1500 Torr)         Ordering Information and Complete Specifications on Page 7         Range: 1 to 2000 mbar ± 1 mbar Resolution • 316 SS Diaphragm Sensor Measures Gas or Liquid. Linear 0 to 2 VDC Analog Out. 0 to 10V and 4 to 20 mA Outputs Optional.         Dual Set Point Controller with digital display in 1/4 DIN enclosure. Built to CSA standards. Sensor not included. P/N: 902094-mbar \$613.         Digital Indicator only in 1/4 DIN enclosure. Built to CSA standards. Sensor not included. P/N: 902094-mbar \$613.	
Sensor not included. P/N: 902093-mbar	Gauge tube not included. P/N: 902099-mbar\$431.
Convection Gauges	Pirani Gauge
<b>1X 10<sup>-3</sup> to 1000 mbar</b> (1 X 10 <sup>-3</sup> Torr to atm.) Ordering Information and Complete Specifications on Page 10	<b>.01 to 20.00 mbar</b> (.01 to 20 Torr) Ordering Information and Complete Specifications on Page 15
Linear Analog Outputs for Computer Interface. Large Easy-To-Read Green LED Display in 1/4 DIN Enclosure. <b>Digital Dual Set Point Convection Gauge Controller:</b> Two adjustable set points plus 3 linear analog outputs. 1/4 DIN enclosure. Built to CSA standards001 mbar to atmosphere. P/N: 902176-mbar\$636.	<ul> <li>± .01 mbar Resolution Over Range of .01 to 20.00 mbar. Shock Resistant Digital Display; No Fragile Meters. Linear 0 to 2.0 VDC Analog Output, 4 to 20 mA, 0-10 VDC Optional.</li> <li>Dual Set Point Controller with digital display in 1/4 DIN enclosure. Built to CSA standards. Gauge tube not included R/N: 002008 mbar. \$663</li> </ul>
<b>Digital Convection Gauge Indicator:</b> Three linear analog outputs. 1/4 DIN enclosure with jack screws for panel mounting. Built to CSA standards001 mbar to atmosphere. P/N: 902179-mbar\$438.	to CSA standards. Gauge tube not included. P/N: 902098-mbar\$663. <b>Digital Indicator only</b> in <i>1/4 DIN enclosure</i> . Built to CSA standards. Gauge tube not included. P/N: 902097-mbar\$482. <b>sburgh, PA 15222 USA · www.vacuumresearch.com</b>

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## **VACUUM** Vacuum Gauges Calibrated in Pascal

All of our vacuum instruments can be provided with displays and analog outputs reading directly in Pascal. To specify a Vacuum Research gauge calibrated in Pascal simply add the suffix "Pascal" to any of our gauge p/n's. There's no extra cost and all specifications other than the unit of measure are the same as those shown in this catalog for our gauges calibrated in Torr. The transducers and gauge tubes used with Torr and Pascal instruments are identical and do not require any suffix.

Wide Range Diaphragm Manometer	Pirani Gauge
<b>0.1 to 200,000 Pa</b> (1 mTorr to 1500 Torr)Ordering Information and Complete Specifications on Page 8	.001 to 13.333 Pa (0.01 to 100 mTorr)           Ordering Information and Complete Specifications on Page 14
Large Easy-To-Read Green LED in 1/4 DIN Enclosure. Two Set Points With 3 Amp, 220 V Relays. 4 Set Points Optional. Wide Range Gauge Display Units: Digital display unit with 2 set points and 2 analog outputs; 1/4 DIN cabinet. Transducer not included. P/N: 902076-Pascal	<ul> <li>± .01 x 10<sup>-3</sup> Pa resolution over entire range. Replaces Cold Cathode or Penning Gauges. Linear 0 to 1 VDC analog output, 4 to 20 mA and 0 to 10 VDC outputs optional.</li> <li>Dual Set Point Controller with digital display in <i>1/4 DIN enclosure</i>. Built to CSA standards. Gauge tube not included. P/N: 902096-Pascal\$823.</li> <li>Digital Indicator only in 1/4 DIN enclosure. Built to CSA standards. Gauge tube not included. P/N: 902095-Pascal\$636.</li> </ul>
Diaphragm Manometer	Pirani Gauge
Image: 0.1 to 200.0 kPa (1 to 1500 Torr)Contering Information and Complete Specifications on Page 7Range: 0.1 to 200.0 kPa ± 0.1 kPa Resolution. 316 SS Diaphragm Sensor Measures Gas or Liquid. Linear 0 to 2 VDC Analog Out. 0 to 10V and 4 to 20 mA Outputs Optional.Image: 0.1 Set Point Controller with digital display in 1/4 DIN enclosure. Built to CSA standards. Sensor not included. P/N: 902094-Pascal	A standards. Gauge tube not included. P/N: 902099-Pascal
Convection Gauges	Pirani Gauge
<b>0.1 to 100,000 Pa</b> (1 X 10 <sup>-3</sup> Torr to atm.)         Ordering Information and Complete Specifications on Page 10         Linear Analog Outputs for Computer Interface. Large Easy-To-Read Green LED Display in 1/4 DIN Enclosure.         Digital Dual Set Point Convection Gauge Controller: Two adjustable set points plus 3 linear analog outputs. 1/4 DIN enclosure. Built to CSA standards. 0.1 to 100,000 PA, P/N: 902177-Pascal	<b>1 to 2000 Pa</b> (.01 to 20 Torr)         Ordering Information and Complete         Specifications on Page 15         ± .01 Pa Resolution Over Range of .01 to 20.00 Pa. Shock Resistant         Digital Display; No Fragile Meters Linear 0 to 2.0 VDC Analog Output, 4         to 20 mA, 0-10 VDC Optional.         Dual Set Point Controller with digital display in 1/4 DIN enclosure. Built         to CSA standards. Gauge tube not included. P/N: 902098-Pascal\$663.         Digital Indicator only in 1/4 DIN enclosure. Built to CSA standards.
standards. 0.1 to 100,000 PA, P/N: 902180-Pascal	Gauge tube not included. P/N: 902097-Pascal\$482. sburgh, PA 15222 USA • www.vacuumresearch.com

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