



# 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 **BUY NOW**



**1 X 10<sup>-3</sup> to 2000 mbar**  
(1 mTorr to 1500 Torr)  
Ordering Information and Complete Specifications on Page 6

Large 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 .....\$936.

**Wide Range with Auxiliary Outputs:** 4 set points plus 0-10 VDC and 4-20 mA. Built to CSA standards. Transducer not included. P/N: 902126-mbar .....\$1,236.

## Pirani Gauge **BUY NOW**



**.01X10<sup>-3</sup> to 10<sup>-1</sup> mbar**  
(0.01 to 100 mTorr)  
Ordering Information and Complete Specifications on Page 14

± .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.

**Dual Set Point Controller** with digital display in 1/4 DIN enclosure. Built to CSA standards. Gauge tube not included. P/N: 902096-mbar . . .\$987.

**Digital Indicator only** in 1/4 DIN enclosure. Built to CSA standards. Gauge tube not included. P/N: 902095-mbar .....\$751.

## Diaphragm Manometer **BUY NOW**



**1 to 2000 mbar**  
(1 to 1500 Torr)  
Ordering Information and Complete Specifications on Page 9

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. . . . \$724.

**Digital Indicator only** in 1/4 DIN enclosure. Built to CSA standards. Sensor not included. P/N: 902093-mbar. . . . \$512.

## Pirani Gauge **BUY NOW**



**.01 to 20.00 mbar**  
(.01 to 20 Torr)  
Ordering Information and Complete Specifications on Page 16

± .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.

**Dual Set Point Controller** with digital display in 1/4 DIN enclosure. Built to CSA standards. Gauge tube not included. P/N: 902098-mbar . . .\$784.

**Digital Indicator only** in 1/4 DIN enclosure. Built to CSA standards. Gauge tube not included. P/N: 902097-mbar .....\$570.

## Convection Gauges **BUY NOW**



**1 X 10<sup>-3</sup> to 1000 mbar**  
(1 X 10<sup>-3</sup> Torr to atm.)  
Ordering Information and Complete Specifications on Page 12

Circuit Board Only  
See Page 38

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. .001 mbar to atmosphere. P/N: 902176-mbar .....\$751.

**Digital Convection Gauge Indicator:** Three linear analog outputs. 1/4 DIN enclosure with jack screws for panel mounting. Built to CSA standards. .001 mbar to atmosphere. P/N: 902179-mbar .....\$518.

## Pirani Gauge **BUY NOW**



**.001 to 2.000 mbar**  
(1 to 2000 mTorr)  
Ordering Information and Complete Specifications on Page 15

± .001 mbar Resolution Over Range of .001 to 2 mbar Shock Resistant Digital Display; No Fragile Meters. Linear 0 to 2.0 VDC Analog Output, 4-20 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: 902100-mbar . . .\$724.

**Digital Indicator only** in 1/4 DIN enclosure. Built to CSA standards. Gauge tube not included. P/N: 902099-mbar .....\$510.



# 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 **BUY NOW**



**0.1 to 200,000 Pa**  
(1 mTorr to 1500 Torr)  
Ordering Information and Complete Specifications on Page 6

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 . . . . . \$936.

**Wide Range with Auxiliary Outputs:** 4 set points plus 0-10 VDC and 4-20 mA. Built to CSA standards. Transducer not included. P/N: 902127-Pascal . . . . . \$1236.

## Pirani Gauge **BUY NOW**



**.001 to 13.333 Pa**  
(0.01 to 100 mTorr)  
Ordering Information and Complete Specifications on Page 14

$\pm .01 \times 10^{-3}$  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.

**Dual Set Point Controller** with digital display in 1/4 DIN enclosure. Built to CSA standards. Gauge tube not included. P/N: 902096-Pascal . . \$987.

**Digital Indicator** only in 1/4 DIN enclosure. Built to CSA standards. Gauge tube not included. P/N: 902095-Pascal . . . . . \$751.

## Diaphragm Manometer **BUY NOW**



**0.1 to 200.0 kPa**  
(1 to 1500 Torr)  
Ordering Information and Complete Specifications on Page 9

Range: 0.1 to 200.0 kPa  $\pm 0.1$  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.

**Dual Set Point Controller** with digital display in 1/4 DIN enclosure. Built to CSA standards. Sensor not included. P/N: 902094-Pascal . . . . . \$724.

**Digital Indicator** only in 1/4 DIN enclosure. Built to CSA standards. Sensor not included. P/N: 902093-Pascal . . . . . \$512.

## Pirani Gauge **BUY NOW**



**1 to 2000 Pa**  
(.01 to 20 Torr)  
Ordering Information and Complete Specifications on Page 16

$\pm .01$  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 . . \$784.

**Digital Indicator** only in 1/4 DIN enclosure. Built to CSA standards. Gauge tube not included. P/N: 902097-Pascal . . . . . \$570.

## Convection Gauges **BUY NOW**



**0.1 to 100,000 Pa**  
(1 X 10<sup>-3</sup> Torr to atm.)  
Ordering Information and Complete Specifications on Page 12

Circuit Board Only  
See Page 38

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 . . . . . \$751.

**Digital Convection Gauge Indicator:** Three linear analog outputs. 1/4 DIN enclosure with jack screws for panel mounting. Built to CSA standards. 0.1 to 100,000 PA, P/N: 902180-Pascal . . . . . \$518.

## Pirani Gauge **BUY NOW**



**0.1 to 200.0 Pa**  
(1 to 2000 mTorr)  
Ordering Information and Complete Specifications on Page 15

$\pm .001$  Pascal Resolution Over Range of .001 to 2 Pa Shock Resistant Digital Display; No Fragile Meters. Linear 0 to 2.0 VDC Analog Output, 4-20 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: 902100-Pascal . . \$724.

**Digital Indicator** only in 1/4 DIN enclosure. Built to CSA standards. Gauge tube not included. P/N: 902099-Pascal . . . . . \$510.