



ELECTRONIC PRESSURE MEASUREMENT PRODUCTS

Model 1535 2-inch Stainless Steel Pressure Gauges for Semiconductor

DESCRIPTION

U.S. Gauge Model 1535 pressure gauges are designed and manufactured for ultrahigh-purity gas distribution equipment used in semiconductor manufacturing. These 2 inch, all stainless steel gauges are clean room produced, nitrogen purged, and double bagged in 3 mil nylon bag and 6 mil poly bag.

These instruments are compatible with many toxic and corrosive gases. Welded face seal connections provide a threadless pressure seal and virtually eliminate a major source of contamination. Also available in NPT connections.

The Model 1535 is available in pressure ranges from 0 to 30 inches Hg VAC, to 0 to 4000 psi. This precision gauge incorporates rugged case construction with rear pressure relief, and a seamless Bourdon tube with welded joints for heavy-duty service.

FEATURES

- Cleaning for UHP gas applications exceeding ANSI B40.1 specifications
- 10 Ra finish on face seal connections
- Helium leak tested to confirm leakage rates of less than 10⁻⁹ scc/sec.
- All stainless steel (Type 316L) internal surfaces for corrosion resistance
- Large, easy-to-read dial graduations
- Handles wide variety of exotic gases
- Available with welded face seal fittings, or NPT connection
- Assembled and packaged in Class 100 clean room
- Low mount or center back connections

SPECIFICATIONS

Size: 2 inch diameter

Case: Drawn stainless steel polished with pressure relief in back of case

Ring and Window: One piece, threaded polycarbonate, or optional friction ring with polycarbonate or glass lens

Pointer: Aluminum, adjustable zero, black finish

Dial: Aluminum, white background with black markings

Bourdon Tube: Type 316L seamless stainless steel

Connection: Type 316L stainless steel, low mount or center back mount, male or female face seal fitting, or 1/4 inch male NPT – connectors are shipped with protective plastic caps

Surface Finish:

Face seal connections: 10 Ra

1/4 inch NPT connections: 32 Ra

Ranges: 30 inches Hg vacuum to 4000 psi, single or dual scale, see ordering information

Overpressure: 110% of span maximum

Accuracy:

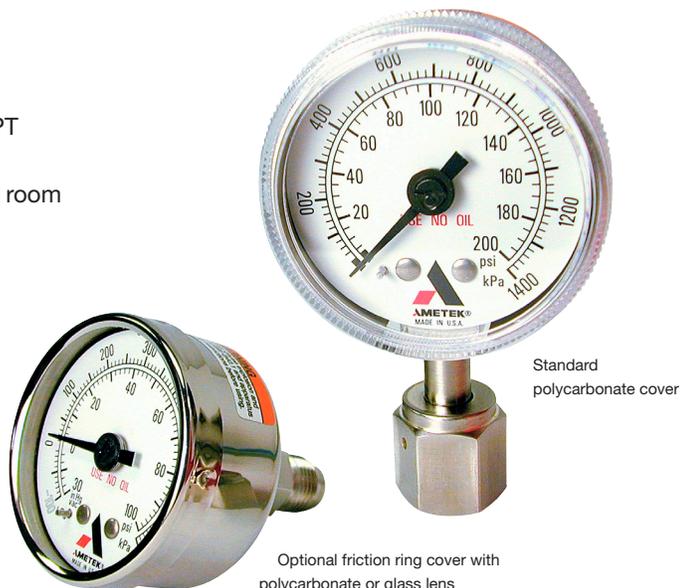
±1% of span (less than 3000 psi)

±2% of span for ranges 3000 psi and above

Scales: psi, bar, kg/cm², KPa, MPa (single or dual scale) inches Hg (for vacuum range, compound and vacuum gauges only)

Model 1535 UHP Semiconductor Gauge

shown with
center back mount and
low mount connections



Standard polycarbonate cover

Optional friction ring cover with polycarbonate or glass lens



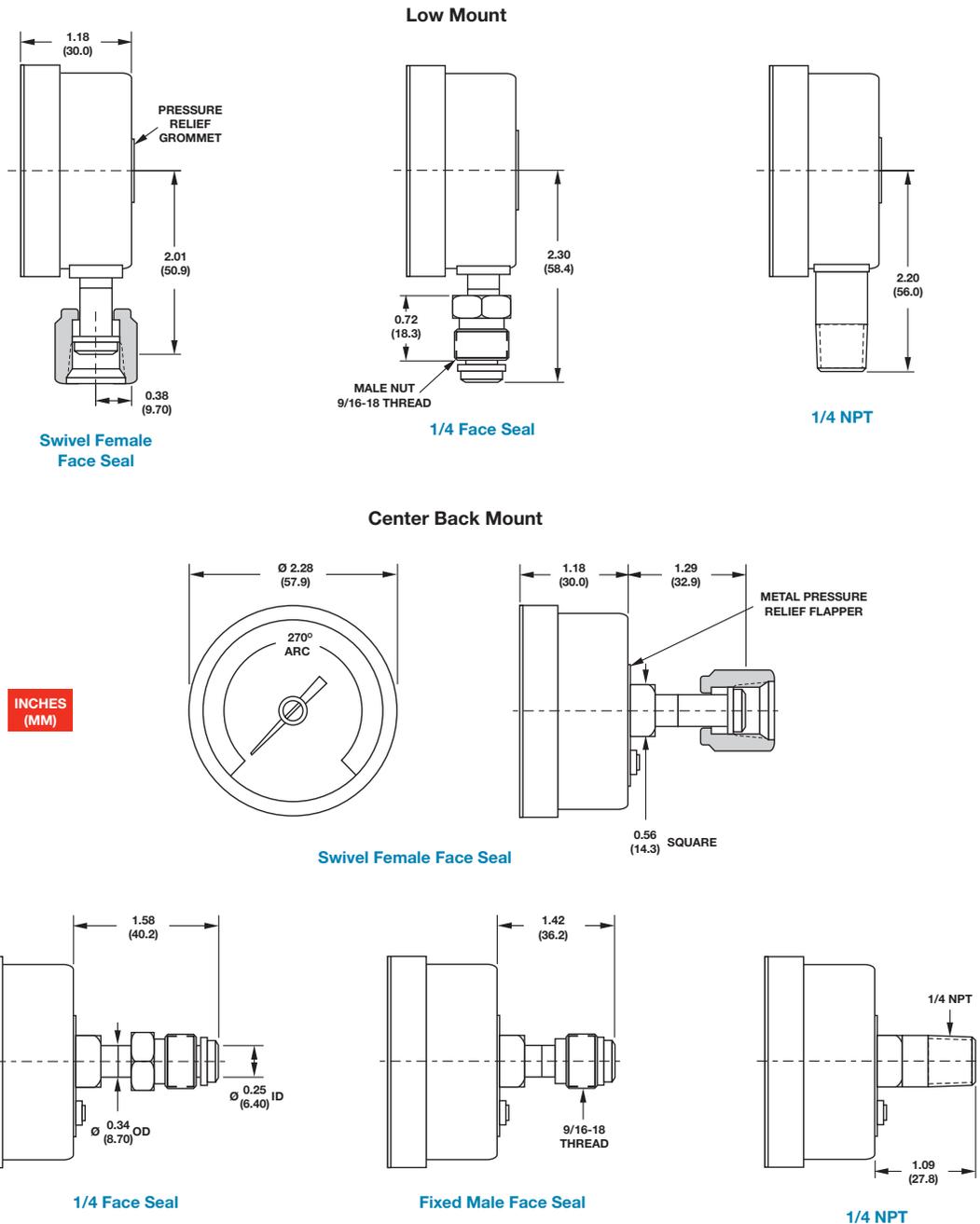
Sales/Technical Support Telephone: +1 215-355-6900 or e-mail: mctpmt.sales@ametek.com
820 Pennsylvania Boulevard | Feasterville, PA 19053 U.S.A. | Order Fax: +1 215-354-1802





ELECTRONIC PRESSURE MEASUREMENT PRODUCTS

Model 1535 2-inch Stainless Steel Pressure Gauges for Semiconductor





ELECTRONIC PRESSURE MEASUREMENT PRODUCTS

Model 1535 2-inch Stainless Steel Pressure Gauges for Semiconductor

Model Numbering:	
● 1535 2-inch stainless steel pressure gauges	
1535	2-inch stainless steel pressure gauges for semiconductor
● Pressure ranges	
0015	0 to 15 psi 2000 0 to 2000 psi
0030	0 to 30 psi 3000 0 to 3000 psi
0060	0 to 60 psi 4000 0 to 4000 psi
0100	0 to 100 psi VAC 0 to 30 inches Hg vacuum
0150	0 to 150 psi V-0-15 Compound (vac to 15 psi)
0160	0 to 160 psi V-0-30 Compound (vac to 30 psi)
0200	0 to 200 psi V-0-60 Compound (vac to 60 psi)
0300	0 to 300 psi V-0-100 Compound (vac to 100 psi)
0400	0 to 400 psi V-0-150 Compound (vac to 150 psi)
0600	0 to 600 psi V-0-160 Compound (vac to 160 psi)
1000	0 to 1000 psi V-0-200 Compound (vac to 200 psi)
1500	0 to 1500 psi V-0-300 Compound (vac to 300 psi)
● Dial units	
PSI	psi
IN.HG	inches Hg (compound and vacuum)
BAR	bar
KPA	kPa
PSI/BAR	psi and bar
PSI/KG	psi and kg/cm ²
PSI/KPA	psi and kPa
KG/MPA	kg/cm ² and MPa
● Process connection location	
LM	Low mount
CBM	Center back mount
● Process connection type	
NPT	1/4 NPT male fixed
MVCR	Male face seal swivel
MVCRF	Male face seal fixed (center back mount only)
FVCR	Female face seal swivel
● Options	
FR	Friction ring, polycarbonate lens
FRG	Friction ring, glass lens
1535	0030 KPA CBM FVCR FR