

**USG**<sup>®</sup>  
U.S. Gauge

**USG**<sup>®</sup>  
U.S. Gauge

**USG**<sup>®</sup>  
U.S. Gauge

# Product Selection Guide for the **Semiconductor Industry**

**USG**<sup>®</sup>  
U.S. Gauge

# Ultra High Purity Products

**O**ur ultra high purity pressure gauges and switches are designed for ultra high-purity gas distribution systems and equipment such as pressure regulators, gas changeover cabinets, gas sticks, and other equipment for semiconductor, electronics, medical, and biotech industries including OEMs, fabs, and integrators. These instruments are compatible with many toxic and corrosive gases. Welded male or female face seal connections (MVCR & FVCR) provide a threadless pressure seal and virtually eliminate a major source of contamination. Also available in NPT connections. Model 1536 gauges and Model IPS 300 pressure switches are available in both low mount and center back mount configurations, with local inventory based at our Distribution Center in Clawson, MI, USA.



## Product Features

- All pressure gauges and switches are manufactured and packaged in a Class 10 cleanroom.
- Wetted parts are 316L SST.
- Male and female VCR swivel process connections. (NPT also available.)
- VCR face seal finish Ra: 10 $\mu$  inch (0.25 $\mu$  m)
- Available in low mount and center back mount process connections.
- Nitrogen purged and double bagged for cleanliness.
- Helium leak tested to confirm leakage rates of less than 10<sup>9</sup> scc/second.
- Cleaning for UHP gas applications exceeding ANSI B40.100 specifications.

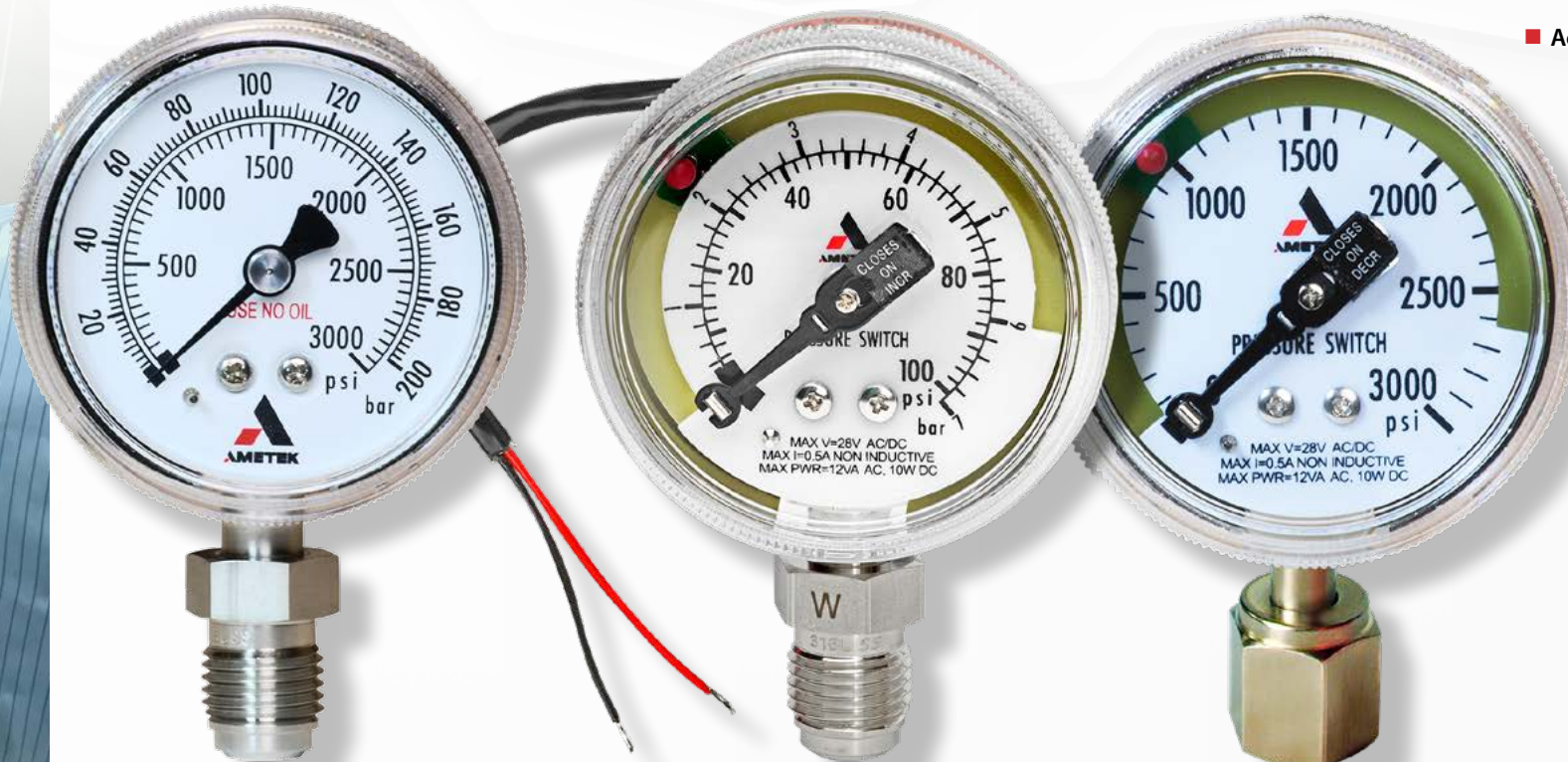


## Model 1536 Ultra High Purity Pressure Gauge

- **Size** ..... 2-inch standard (1-1/2" and 2-1/2" available upon request).
- **Pressure Ranges** ... 0 to 15 psi through 0 to 4000 psi standard; compound Vacuum to 0 psi through Vacuum to 300 psi.
- **Dial Scales** ..... Single scale psi, IN.HG, bar, kPa; dual scale psi/bar, psi and kg/cm2, psi/kPa, kg/cm2/MPa.
- **Accuracy** .....  $\pm 1\%$  of span (ASME B40.100 Grade 1A).

## Model IPS-300 Ultra High Purity Pressure Switch

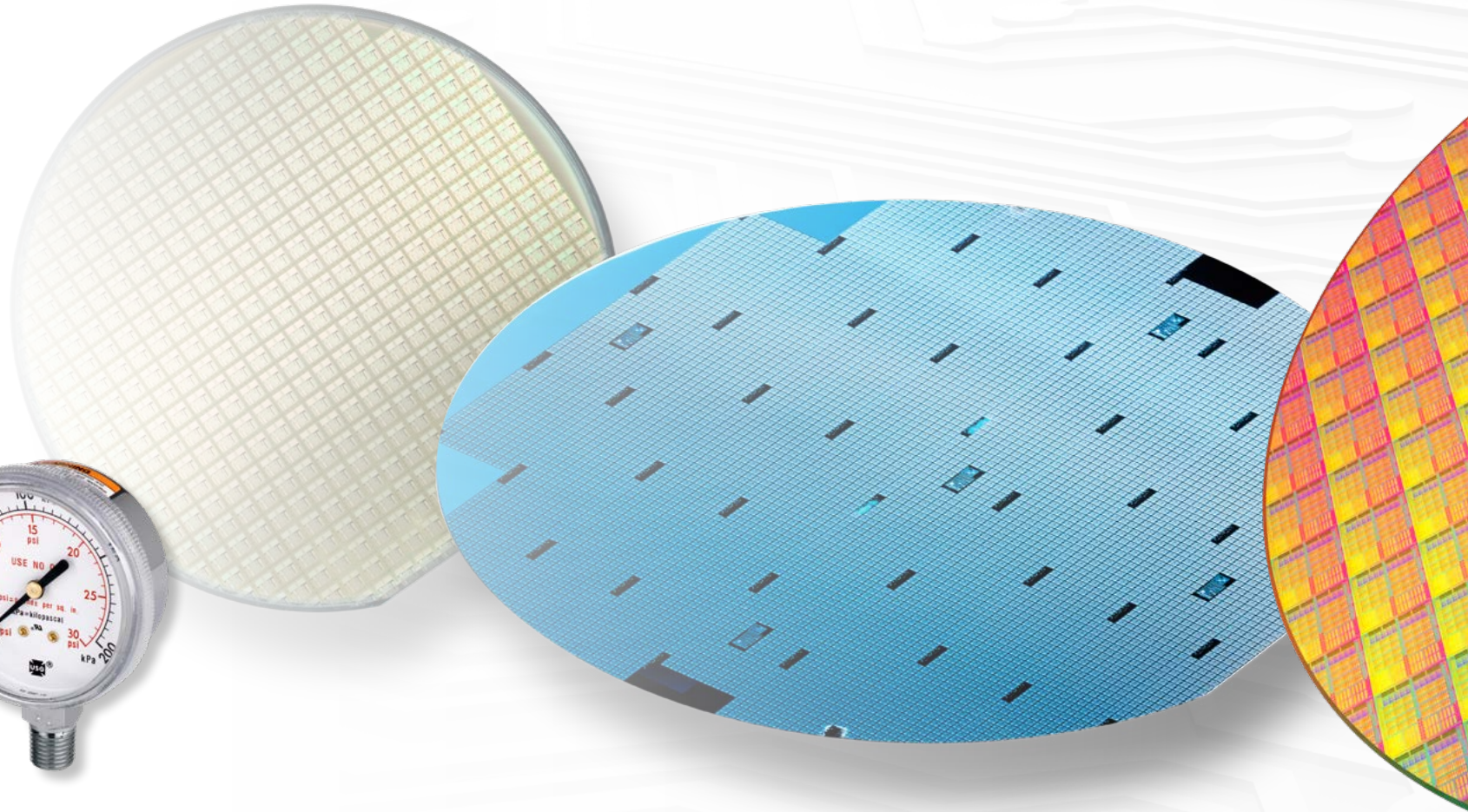
- **Size** ..... 2-inch standard.
- **Pressure Switch**.... Requires no power, magnetically actuated reed switch.
- **Operates**..... Low voltage audible/visual alarms and relays.
- **Pressure Ranges** ... 0 to 15 psi through 0 to 4000 psi standard; compound Vacuum to 0 psi through Vacuum to 300 psi.
- **Dial Scales** ..... Single scale psi, IN.HG, bar, kPa; dual scale psi/bar, psi and kg/cm2, psi/kPa, kg/cm2/MPa.
- **Accuracy** ...  $\pm 2\%$  of span (ASME B40.100 Grade B).



From left to right: Model 1536 Gauge and Model IPS-300 Pressure Switches.

**P**lease visit our website for other Pressure Products including digital gauges, diaphragm seals, transducers, hydrostatic sensors, and pneumatic controllers.

[www.ametekusg.com](http://www.ametekusg.com)



**USA, Florida**  
Tel +1 (800) 527 9999

**USA, California**  
Tel +1 (800) 444 1850

**India**  
Tel +91 22 2836 4750

**Singapore**  
Tel +65 6484 2388

**China, Shanghai**  
Tel +86 5868 5111

**China, Beijing**  
Tel +86 10 8526 2111-19/24/25

**United Kingdom**  
Tel +44 (0) 1243 833 302

**France**  
Tel +33 (0) 30 68 89 40

**Germany**  
Tel +49 (0) 2159 9136 510

**Denmark**  
Tel +45 4816 8000

**U.S.Gauge**  
205 Keith Valley Road  
Horsham, PA 19044  
215.674.1234

Email  
[usg.sales@ametek.com](mailto:usg.sales@ametek.com)

Webstore  
[webshop.ametekusg.com](http://webshop.ametekusg.com)



No part of this document may be reproduced or modified in any form or by any means, electronic or mechanical, without express written permission from AMETEK Incorporated.

©2019 AMETEK Incorporated

**AMETEK**  
SENSORS, TEST & CALIBRATION