ULTRA HIGH PURITY

PRESSURE GAUGE



Ultra High Purity Pressure Gauge (EP Grade)

MODEL

P810 series (316L Type)

SERVICE INTENDED

P810 series are specially designed for the ultra-high purity gas distribution system used in a semiconductor, electronic, medical, biotechnology, and pharmaceutical industry.

NOMINAL DIAMETER

35 (1½"), 50 (2") and 63 mm (2½")

ACCURACY

Grade A: 50 (2") and 63 mm (21/2")

Grade B: 35 (1½"), 50 (2") and 63 mm (2½")

SCALE RANGE

 $-0.1 \sim 0$ to $0 \sim 28$ MPa

PRESSURE CONNECTION

Type 316L Stainless steel Electropolished low mount or center back mount surface finish Ra≤0,25 µm

- 1/4" NPT male thread
- VCR® male or female face seal fitting

HELIUM LEAK RATE

Tested to confirm leakage rates of less than 10⁻⁹ mbar • ℓ/sec

CERTIFICATES

ATEX Ex II GD c IIC TX









Ultra High Purity Pressure Gauge (EP Grade)

MODEL

P820 series (316L Type Double Melt)

SERVICE INTENDED

P820 series are specially designed for the ultra-high purity gas distribution system used in a semiconductor, electronic, medical, biotechnology and pharmaceutical industry.

NOMINAL DIAMETER

50 (2") and 63 mm (2½")

ACCURACY

Grade A (ASME B40.1): 50 (2") and 63 mm (2½") Grade B (ASME B40.1): 50 (2") and 63 mm (2½")

SCALE RANGE

-0.1 ~ 0 to 0 ~ 28 MPa

PRESSURE CONNECTION

Type 316L Stainless steel Electropolished low mount or center back mount surface finish Ra≤0.25

• ¼ " NPT male thread
• VCR male or female face seal fitting

HELIUM LEAK RATE

Tested to confirm leakage rates of less than 10⁻⁹ mbar • ℓ/sec

CERTIFICATES

ATEX Ex II GD c IIC TX



High Purity Pressure Gauge (BA Grade)

MODEL

P830 series (316L Type)

SERVICE INTENDED

P830 series are specially designed for the high purity gas distribution system used in a semiconductor, electronic, medical, biotechnology and pharmaceutical industry.

NOMINAL DIAMETER

35 (1½"), 50 (2") and 63 mm (2½")

ACCURACY

Grade A: 50 (2") and 63 mm (2½")

Grade B: 35 (1½"), 50 (2") and 63 mm (2½")

Scale range

-0.1 ~ 0 to 0 ~ 28 MPa

PRESSURE CONNECTION

Type 316L Stainless steel low mount or center back mount BA grade or surface finish

- 1/4 " NPT male thread
- VCR® male or female face seal fitting

HELIUM LEAK RATE

Tested to confirm leakage rates of less than 10⁻⁹ mbar • l/sec

CERTIFICATES

ATEX Ex II GD c IIC TX







Ultra High Purity Pressure Switch



MODEL

P840 series (316L Type)

SERVICE INTENDED

P840 series are specially designed for the ultra-high purity gas distribution system used in a semiconductor, electronic, medical, biotechnology and pharmaceutical industry.

NOMINAL DIAMETER

50 mm (2")

SWITCH POINT ACCURACY

±2.0% of full scale

SCALE RANGE

0 ~ 28 MPa

PRESSURE CONNECTION

Type 316L Stainless steel Electropolished low mount or center back mount surface finish Ra≤0.25

• ¼ " NPT male thread
• VCR® male or female face seal fitting

HELIUM LEAK RATE

Tested to confirm leakage rates of less than 10⁻⁹ mbar • ℓ/sec

CONNECTION

26 AWG, Teflon insulated, 10 feet leads (2 black wires)

MAXIMUM POWER

10 watts DC, 12 VA/AC

MAXIMUM SWITCHING CURRENT

0.5 amps AC/DC noninductive

MAXIMUM SWITCHING VOLTAGE

28 V AC/DC

MODEL

PT840 series

SERVICE INTENDED

PT840 series are specially designed for the ultra-high purity gas distribution system used in a semiconductor, electronic, medical, biotechnology and pharmaceutical industry.

NOMINAL DIAMETER

50 mm (2")

GAUGE ACCURACY

±1.0% of full scale

TRANSMITTER ACCURACY

±0.25% of full scale

SCALE RANGE

Refer to range code

PRESSURE CONNECTION

Type 316L Stainless steel electropolished low mount or center back mount surface finish Ra≤0.25 μm

- 1/4 " NPT male thread
- VCR® male or female face seal fitting

HELIUM LEAK RATE

Tested to confirm leakage rates of less than 10⁻⁹ mbar • ℓ/sec

CONNECTION

26 AWG, Teflon insulated, 10 feet leads (2 black wires)

OUTPUT

4 ~ 20 mA, 2 wire system

POWER

DC 24V

Ultra High Purity Pressure Gauge with Transmitter



Ultra High Purity Pressure Transmitter



MODEL

PT850 series

SERVICE INTENDED

PT850 series pressure transmitter is a signal conditioned media-isolated high precision pressure transmitter that can be used for a wide variety of applications. The transmitter has a water resistant, stainless steel housing for complete protection from harsh environments. The transmitter offers the convenience and easy installation with the full capabilities of a highly accurate 4~20 mA 2-wire system design.

The stainless steel surfaces make it compatible with a wide variety of gases and liquids and can be protected from harsh environment.

It is extremely versatile and suitable for measuring dynamic or static pressure. The transmitters are available as absolute and relative pressure types. The pressure to be measured acts through corrosion resistant stainless steel 316L diaphragm with a piezoresisitive resistors which are connected into a Wheatstone bridge. PT850 series pressure transmitter is electrically temperature compensated.

ACCURACY

±0.25 of full scale

TEMPERATURE RANGE

-20 ~ 80 °C

WETTED MATERIAL

Stainless Steel 630 (Sensor) Stainless Steel 316L (VCR)

SURFACE

Ra≤0.25 μm

RESPONSE TIME

00 1113

CONNECTION TYPE

VCR

INPUT POWER

12 ~ 24 VDC

OUTPUT SIGNAL

4 ~ 20 mA (2 wire)

CERTIFICATES

IP65 Ex d IIC T6 Ex ia IIC T6



MODEL

P870 series

SERVICE INTENDED

P870 series provide a superior chemical resistant and non-viscous pressure gauge which employs fluorine resin for the wetted parts. It can be used with highly corrosive fluids. The case material is PP resin and resistance to corrosive environments.

NOMINAL DIAMETER

50 mm

ACCURACY

±1.5% of full scale (Only available with 0.6 and 1 MPa) ±2.0% of full scale

SCALE RANGE (MPa, kPa, bar)

0 ~ 0.1 MPa to 0 ~ 1 MPa

PRESSURE CONNECTION

Fluorine resin (PTFE)

PRESSURE ELEMENT

Bellows: Fluorine resin (PFA)

CASE & COVER

PP Resin

WINDOW

Screw type PET resin

MOVEMENT

Brass

DIAL

White aluminium with black graduations

POINTER

Aluminium alloy, Black painted

PROCESS CONNECTION

3/8" PT, PF Tube (Plaese consult about other connection)

TREATMENT

Assembly & adjustment : Clean room (Class 10000)

Leak test : Helium leak test Treatment : Use no oil and water

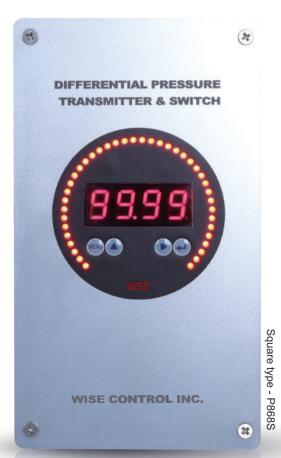
Packing: After N2 gas flushing, Clean polyethylene

Hermetical sealed packing

Anti-Corrosion Pressure Gauge



Digital Low Differential Pressure Indicating Switch with Analog Output





MODEL

P868 series

SERVICE INTENDED

This product is designed to measure the differential pressure, gauge pressure, and absolute pressure of air or non-corrosive gas.

It measures the pressure of the object in real time. Furthermore, it has a 4-20 mA output and two alarm outputs. The user can easily read its displayed pressure value thru LED monitor.

In addition, it is particularly suitable for measuring a low pressure due to its automatic zero calibrating function.

DISPLAYLED display

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ACCURACY

Differential pressure range: ±3 % at ~ 500 Pa, ±0.25 % at -2.5 mbar ~ 10 bar

Gauge pressure range : ±0.25 % Absolute pressure range : ±0.25 %

SCALE RANGE

Differential pressure range: -25 pa ~ +25 pa to 10 bar Gauge pressure range: 0 ~ 4 mbar to 10 bar Absolute pressure range: 0 ~ 1 bar to 10 bar

PERMISSIBLE TEMPERATURE

Operating: -20 to +80 °C, -40 to +125 °C Storage: -30 to +80 °C, -50 to +150 °C

PARAMETER ADJUSTMENT

4 push buttons

OUTPUT

Current(4 ~ 20 mA), Voltage(1 ~ 5 V), 2ea Dry type relay contact

Low Differential Pressure Gauge

MODEL

P880 series

SERVICE INTENDED

This gauge is used to measure a pressure of air and gas duct, furnace draft, negative pressure room, also, a differential pressure of filter, venturi tube and etc. This gauge have a high quality, low cost, good appearance and wide scale range.

NOMINAL DIAMETER

100 mm

ACCURACY

±2.0% of full scale

SCALE RANGE (kPa)

-0.25 to 0.25 kPa, 0~50 kPa -10 to 10 kPa

Working pressure

Steady pressure: 75% of full scale Over pressure protection: 0.1 MPa

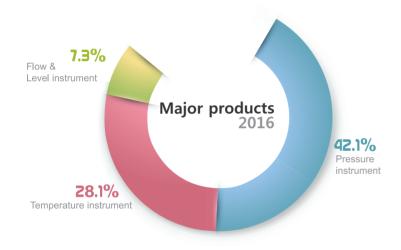
Working temperature

Ambient: -10 ~ 60°C



Major Products

- Pressure Instrument (42.1%)
- Temperature Instrument (28.1%)
- Flow & Level Instrument (7.3%)
- ETC. (22.5%)



Business Founded

1965-05-06

Original Company Name

WISE Control Inc.

Date of Commencement of Supplying the Item for Application 1965-12-10

Home page

www.wisecontrol.com



YONGIN PLANT

2022, Deogyeong-daero, Giheung-gu, Yongin-si, Gyeonggi-do, 17097, Republic of Korea
Tel. 82-31-280-5114 Fax. 82-31-283-9800
http://www.wisecontrol.com
PRODUCT. Pressure & Temperature instruments

PAJU PLANT

149, Hanroksan-gil, Tanhyeon-myeon, Paju-si, Gyeonggi-do, 10858, Republic of Korea Tel. 82-32-328-1571 Fax. 82-32-328-6530 PRODUCT. Power transmission line hardware

BUCHEON PLANT

Sosa plaza 204, 46, 392-gil, Gyeongin-ro, Sosa-gu, Bucheon-si, Gyeonggi-do, 14693, Republic of Korea Tel. 82-32-351-5751~53 Fax. 82-32-351-5754 PRODUCT. General Service Pressure gauge

HWASEONG PLANT

5, Madogongdan-ro 4-gil, Mado-myon, Hwaseong-si, Gyeonggi-do, 18542, Republic of Korea Tel. 82-31-366-9237 Fax. 82-31-366-9238 PRODUCT. Level Gauge & Flow Elements



