## **Convection-Enhanced Pirani Gauge**

PG105U — UHV Pirani gauge



- · UHV compatible
- · Bakeable to 250 °C
- · Fast response time
- · Compatible with IGC100 controller



## **PG105U Specifications**

Type Convection-enhanced Pirani gauge

Measurement range  $1.0 \times 10^{-4}$  to 1000 Torr Materials exposed Stainless steel, nickel "52" alloy,

to vacuum glass-alumina, ceramic, gold, copper Sensor Gold-plated tungsten

Sensor temperature 120 °C (nominal)
Reproducibility 5 % (at constant temp.)

Bakeout temperature 250 °C

(non-operating) Disconnect electronic housing

during bakeout

Operating temperature  $0 \, ^{\circ}\text{C}$  to  $50 \, ^{\circ}\text{C}$  Temp. compensation  $10 \, ^{\circ}\text{C}$  to  $40 \, ^{\circ}\text{C}$  range

Installation orientation Gauge tube axis must be horizontal

for pressure measurements

above 1 Torr.

Connection Standard: 0.5 inch dia. side tube

terminated in 1/8NPT thread *Options*: NW16KF, NW25KF, 1.33" CF, 2.75" CF, 1/4" VCR 1) Not intended for use in

Gas compatibility 1) Not intended for use in explosive atmospheres

2) Do not use in the presence of fluorine or mercury containing vapors.

Calibration gas  $N_2/air$ Internal volume  $28 \text{ cm}^3$ 

Dimensions  $1.3" \times 2.7" \times 4.2"$  (WHL)

Weight 0.5 lbs. Electrical connector RJ-45

The PG105U is an all-metal, convection-enhanced Piani gauge, featuring a knife-edge copper gasket seal. The gauge has a bakeout range from 110 °C to 250 °C allowing complete compatibility with UHV environments.

## **Ordering Information**

PG105U Pirani gauge (250 °C, 1/8" NPT)

Option 01 1.33" CF flange
Option 02 2.75" CF flange
Option 03 NW16KF flange
Option 04 NW25KF flange
Option 05 VCR 1/4" fitting

O105C4 10' cable (dual-gauge cable)
O105C4/1 25' cable (dual-gauge cable)
O105CA1 Adapter for Convectron® gauge
O105CA2 Adapter for HPS® series 317

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