Convection-Enhanced Pirani Gauge

PG105U — Convection-enhanced Pirani gauge

- 1000 Torr to 10^{-4} Torr range
- · UHV compatible
- · Bakeable to 250 °C
- · Fast response time
- · Built-in temperature compensation
- Compatible with IGC100 controller



PG105U Specifications

Convection-enhanced Pirani gauge Type 1.0×10^{-4} to 1000 Torr Measurement range

Materials exposed Stainless steel, nickel "52" alloy, glass-alumina, ceramic, gold, copper to vacuum

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 °C to 50 °C

Temp. compensation 10 °C to 40 °C range Installation orientation Gauge tube axis must be horizontal

for pressure measurements above

1 Torr 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 explosive atmospheres.

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

> vapors. N₂/air

Calibration gas Internal volume 28 cm^3

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

Weight 0.5 lbs. **RJ-45** Electrical connector

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)	\$250
Option 01	1.33" CF flange	\$50
Option 02	2.75" CF flange	\$50
Option 03	NW16KF flange	\$30
Option 04	NW25KF flange	\$30
Option 05	VCR 1/4" fitting	\$30
O105C4	10' cable (dual gauge cable)	\$50
O105C4/1	25' cable (dual gauge cable)	\$65
O105CA1	Adapter for Convectron® gauge	\$25
O105CA2	Adapter for HPS® series 317	\$25



Connection

Gas compatibility

phone: (408)744-9040 www.thinkSRS.com