



DigiVac recently performed some testing on the Pfeiffer TPG-201, a Pirani gauge with an internal sensor.

Accuracy Specs:

- 10⁻⁴ to 10 mBar: +/-10% of reading
- 10 mBar to 1000 mBar: +/- 30% of reading

We performed a certified calibration using standards traceable back to NIST. The unit was previously used and did not pass on incoming. We performed factory calibration of the unit, which improved the accuracy at all test points except for 100 mBar. The unit uses a two-point software calibration, and no further adjustment is possible.

Standard	UUT As Received	UUT Final	Tolerance	In Tolerance?		Comments
				Incoming	Outgoing	
.010 mBar	2.0-2	1.1-2	+ / - 10% RDG	N	Y	Reading in mBar/hPA
.100 mBar	1.1-1	1.0-1	+ / - 10% RDG	Y	Y	Reading in mBar/hPA
1.0 mBar	9.8-1	9.7-1	+ / - 10% RDG	Y	Y	Reading in mBar/hPA
10 mbar	8.6	9.2	+ / - 30% RDG	Y	Y	Reading in mBar/hPA
100 mBar	37	58	+ / - 30% RDG	N	N	Reading in mBar/hPA
1000 mBar	89	1000	+ / - 30% RDG	N	Y	Reading in mBar/hPA

Standards and instruments used in the performance of calibrations by the DigiVac Company are maintained in current calibration in an unbroken chain back to the standards maintained by the National Institute of Standards and Technology (N.I.S.T., Gaithersburg, MD, USA).

DigiVac’s line of Quantum sensors are an excellent option for customers looking to read vacuum from 10⁻⁴ to atmosphere, that are considerably more accurate as well as user-friendly, and with shorter lead times.

The DPP sensor is a hybrid piezo/pirani sensor.

- 10⁻⁶ to 10⁻⁵ Torr = +/- 50%
- 10⁻⁵ Torr to 4.99 Torr = +/- 14%
- 5 Torr to 1000 Torr = +/- 3%

The DPCP sensor is a hybrid piezo/pirani/capacitance manometer sensor.

- 10⁻⁶ Torr to 10⁻⁴ Torr = +/- 20%
- .001 Torr to 1000 Torr = +/- 3%

Quantum sensors can be paired with a readout such as the **Bullseye DASH**:

- Battery-powered
- Portable
- Can be equipped with Bluetooth for remote monitoring, logging and graphing of your vacuum readings over time
- Base unit is compatible with many different types of sensors; sensor assignment can be changed by the user

Quantum sensors can also be paired with the **StrataVac**:

- Benchtop
- Other sensors or valves can be easily added to the unit later by returning it for upgrades
- Can be equipped with Wi-Fi for remote monitoring, logging and graphing of your vacuum data over time
- Comes equipped standard with USB data output that can be read through a terminal program or our free software StrataCapture, which logs and graphs vacuum data over time