

# VacTest

## Analog Transmitters Piezoresistive GRP 100/200



The Analog Transmitters GRP 100/200 are piezoresistive vacuum gauges perfectly suited for pressure measurements between 1400 and 1 mbar. Thanks to their durable aluminium oxide ceramic sensor, they are nearly insensitive to contamination and are therefore ideal for challenging applications.

- Gas type independent measurement
- Flexible analog output signals (4–20 mA or 0–10 V)
- Long term stability and short response time
- Chemically resistant ceramic sensor
- Resistant against shock venting and vibration
- Temperature compensated
- Robust stainless steel housing
- Zero adjustment by digital push button
- Ultra low leakage rate  $< 5 \cdot 10^{-10}$  mbar·l/s



VacTest GRP 200

VacTest GRP 100

Technical data		GRP 100, GRP 200
Measurement principle		Piezoresistive
Materials exposed to vacuum		Stainless steel 1.4305, Al <sub>2</sub> O <sub>3</sub> ceramic, FKM
Measurement range	mbar	1400–1
Overpressure limit	bar abs.	4
Measurement uncertainty	% full scale	< 0.3%
Leakage rate	mbar·l/s	$< 5 \cdot 10^{-10}$
Reaction time	ms	< 20
Electrical connection		GRP 100: Hirschmann, 6 poles GRP 200: M12 A, 5 poles
Supply voltage	V	GRP 100: 15–30 GRP 200: 9–30
Max. power consumption	W	0.6
Output signal		GRP 100: 0–10 V GRP 200: 4–20 mA
Operating temperature	°C	+5 ... +60
Protection class		GRP 100: IP40 GRP 200: IP54
Approximate weight	g	120
Dimensions (L x W x H)	mm	GRP 100: 32 x 32 x 66 GRP 200: 32 x 32 x 81
Vacuum connection		DN 16 ISO-KF, G ¼ female thread

Vacuum gauges	Part number
GRP 100	0656202944
GRP 200	0656202948

Controllers (0–10 V sensors only)	Part number
Active Sensor Controller CTR 002, 2 channels	0656202928

Connection	Part number
0–10 V Connecting cable, 2m, for CTR 002	0671204566
0–10 V Connecting cable, 6m, for CTR 002	0671204567
0–10 V Connecting cable, 10m, for CTR 002	0671204568
0–10 V Connecting cable, 20m, for CTR 002	0671204569
0–10 V Connecting cable, 2m, with open ends	0671204570
0–10 V Connecting cable, 6m, with open ends	0671204571
0–10 V Connecting cable, 10m, with open ends	0671204572
0–10 V Mating plug	0680204574
4–20 mA Mating plug	0680204573

Calibration	Part number
Calibration certificate, 1000 to $1 \cdot 10^{-4}$ mbar	0656204608

Accessories	Part number
Hose nozzle-G ¼ male adapter	0574204602

For the entire product range please refer to the corresponding leaflets.