

VacTest

Analog Transmitter Pirani GTP 100 C



The Analog Transmitter GTP 100 C is a corrosion resistant Pirani vacuum gauge ideal for challenging applications. Equipped with a reliable and robust spiral coil filament, this transmitter provides a wide range of pressure measurement from atmosphere to $5 \cdot 10^{-4}$ mbar.

- Platinum / Rhodium filament for corrosive applications
- 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



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Technical data		GTP 100 C
Measurement principle		Pirani
Materials exposed to vacuum		Stainless steel 1.4307, nickel, platinum / rhodium, glass
Filament material		Platinum / Rhodium
Measurement range	mbar	1000– $5 \cdot 10^{-4}$
Overpressure limit	bar abs.	10
Measurement uncertainty	% of reading	< 30% (1000–10 mbar)
		< 10% ($10 - 1 \cdot 10^{-2}$ mbar)
		< factor 2 ($< 1 \cdot 10^{-2}$ mbar)
Repeatability of measurement	% of reading	$\pm 5\%$ ($10 - 1 \cdot 10^{-2}$ mbar)
Leakage rate	mbar·l/s	$< 5 \cdot 10^{-10}$
Reaction time	ms	< 200
Electrical connection		Hirschmann, 6 poles
Supply voltage	V	15–30
Max. power consumption	W	1.5
Output signal		0–10 V
Operating temperature	°C	+5 ... +60
Max. bake-out temperature	°C	150
Protection class		IP40
Approximate weight	g	120
Dimensions (L x W x H)	mm	32 x 32 x 66
Vacuum connection		DN 16 ISO-KF

Vacuum gauges	Part number
GTP 100 C	0656202946

Controllers (0–10 V sensors only)	Part number
Active Sensor Controller CTR 002, 2 channels	0656202928
Power cord	0659930583

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

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

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Technical data is subject to change. Created in Germany. MG SPAL VACTESTGTP100C USen 06/2018 8BA