

# DigiLine™



**Innovative Vacuum Measurement!**

**Digital Pirani Cold Cathode Transmitter MPT 100.**

**PFEIFFER**  **VACUUM**

# Digital Pirani Cold Cathode Transmitter

## Advantages at a glance

- ▶ MPT 100 transmitter expands the DigiLine™ family of vacuum instruments
- ▶ Compatible with DigiLine™ controllers and accessories
- ▶ High accuracy of measurement
- ▶ Rugged Pirani / cold cathode combination
  - Broad measurement range from  $5 \times 10^{-9}$  to 1000 mbar
  - Resistant to gas inrush
  - More robust than hot cathode gauges
- ▶ Crossover between the Pirani and the cold cathode sensor occurs in a very low pressure range ( $10^{-3}$  mbar)
  - No contamination due to self-sputtering effects
  - Suitable for coating systems
- ▶ Option of switching the cold cathode sensor on and off by means of an external software command
  - No interference with the vacuum process
- ▶ Compact magnet
- ▶ Optional Profibus field bus interface by means of TIC 252 converter
- ▶ Pfeiffer Vacuum protocol
  - Easy to combine with other Pfeiffer Vacuum products like turbopumps, backing pumps and leak detectors via RS 485 applications



## Applications

- ▶ Coating systems
- ▶ Vacuum furnaces
- ▶ Accelerators
- ▶ Mass spectrometers
- ▶ Semiconductor

## Technical data

Technical data	
Measurement range	$5 \times 10^{-9}$ to 1000 mbar
Crossover range	$2 \times 10^{-3}$ to $1 \times 10^{-3}$ mbar
Accuracy between $1 \times 10^{-2}$ and 100 mbar	+/- 15 % (of reading)
Accuracy between $1 \times 10^{-7}$ and $1 \times 10^{-2}$ mbar	+/- 25 % (of reading)
Reproducibility between $1 \times 10^{-7}$ and 100 mbar	+/- 5 % (of reading)
Pressure max.	4 bar abs
Cold cathode sensor control	Cold cathode sensor can be switched on and off via interface
Interfaces	RS 232, RS 485 Profibus optional with TIC 252 field bus converter
Flange sizes	DN 25 KF, DN 40 KF, DN 40 CF-R

## Order numbers

Typ	Flange	Article number
MPT 100	DN 25 KF	PT R35 120
MPT 100	DN 40 KF	PT R35 130
MPT 100	DN 40 CF-R	PT R35 330

## Accessory

	Article number
TIC 252 Profibus converter	PT 348 111



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