

# PH Instruments GmbH

## Company Profile

1.7.2022



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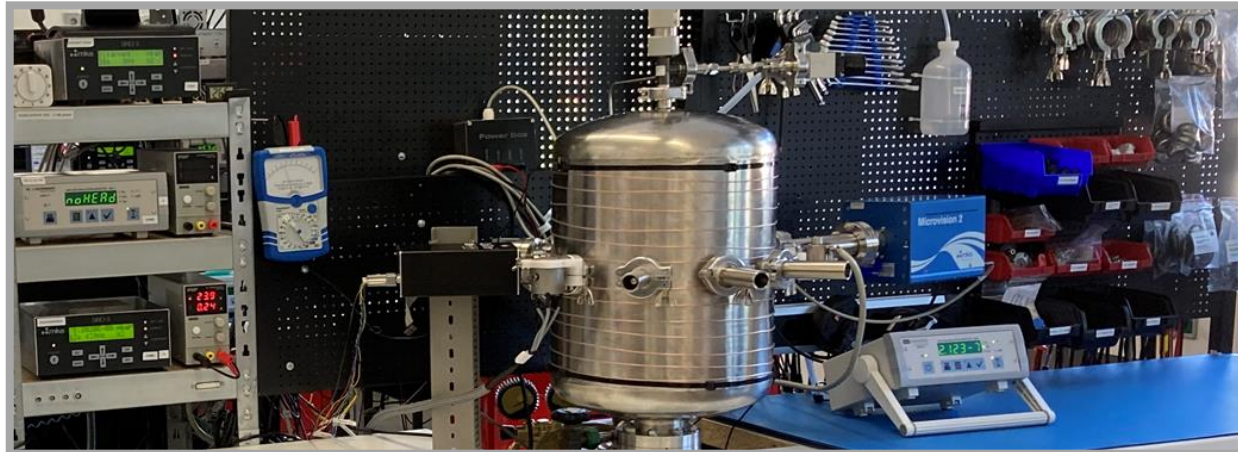


ph-instruments develops, manufactures and sells cost effective High Vacuum measurement solutions based on the outstanding Spinning Rotor Gauge Technology. The sensor concept is simple: a stainless-steel ball in a tube and just on demand the measurement head is mounted. The head interferes by electromagnetic forces with the ball, measures contactless the rotation frequency change of the ball during operation. All without any interference to the vacuum system, no feedthroughs, no electronics, no heat transfer or mechanical effects are needed that would effect the vacuum conditions, results in a unreached long term stability of the pressure measurement result.

The head/readout is sophisticated but can be used for multiple sensors without any loss of performance (as just a rotation frequency of the sphere is measured). The reproducibility, accuracy and long term stability is on the one hand at transfer standard level, on the other hand the Sensor tube with the shere 2 part design allows its use under rough environmental and industrial conditions.

# Company Profile

- > 200 Spinning Rotor Gauges build
- 500m<sup>2</sup> Laboratory / manufacturing / office area
- 12 Employees (most engineering level, 60% R&D)
- Lean manufacturing principles



# Product portfolio

## SRG Technology

### SRG xxx

- Labor System
- Sales release '07
- High Spec Version
- 1 to 5x10<sup>-7</sup>hPa
- No GUI
- **Metrology**

### VIM 2 System

- Mobile Industrial System
- sales release Q3'21
- Batterie Option
- Bluetooth
- 10 to 1x10<sup>-6</sup>hPa
- GUI
- "One Bottom" usage
- Datalogger
- **Static -/ Insulation Vacuum**



### VIM 1 System

- Industrial System
- 10 to 1x10<sup>-6</sup>hPa
- GUI
- "One Bottom" usage
- Datalogger
- **Static -/ Vacuum Insulation**



### SRG Transducer

- SRG for Process Chamber applications
- High power magnetic system
- Standalone/compact
- "No bottom" usage
- Corrosion resistant
- All metal
- 1 to 5x10<sup>-7</sup>hPa
- In-Situ Calibration System
- **Process/reactive and corrosive gases applications**



### Integrated Calibration System

- Optimized pump System for SRG Technology
- Transducer/PHI based
- Comparison of Ion Gauges / Cal software
- Unique & compact professional calibration system for Ion Gauges



Confidential

# Thank You!

