

Gas Meter Test Bench

Description

- Test bench with sonic nozzles for gas meters size G1.6 to G25
- Medium & temperature: Atmospheric air, temperature should be held between 20-25°C
Flow rate range: In accordance with the table of sonic nozzles
- Inputs from meters: Supply voltage for sensors 5VDC and 12VDC
- Bench valves: Remotely operated
- Temperature device: temperature sensor Pt 100 OIML cl. upstream and downstream, readability $\pm 0,1^{\circ}\text{K}$
- Pressure device: electronic pressure gauges with remote reading
- Barometric pressure transmitter, 800-1300 mbar, accuracy 0,2% FSO
- DPS 0 to 600 Pa, accuracy $\pm 1\%$ FSO – for each meter
- DPS 0 to 2 kPa, $\pm 0,07\%$ FSO – for each line
- 0 to -1 bar, accuracy 2% – under-pressure for sonic nozzles
- Humidity device: Humidity transmitter 0 – 95%, accuracy 2%
- A complete test bench consists of: Clamping stand; Measuring block designed for a complete of three sonic nozzles Vacuum source, control system with electronics a control PC.
- Set of pressure transmitters for measuring the under-pressure at the diffuser of sonic nozzles, measuring range 0 -1 bar, accuracy 2%
- Vacuum pumps in accordance with required flow rate – a rotary vacuum pump + vacuum ejectors.
- Optoelectronic sensors for picking up of pulses from the mechanical meter counters
- Flying start stop and stand start stop methods of testing possible.
- Different flows can be adjusted as per the requirement for each size of meter.
- Remote assistance from manufacturer.

