

Meascon™

Measurement Under Control

Small measurement errors can quickly erode profits in natural gas operations. Just imagine if you could monitor your ultrasonic flowmeters and the environment in which they operate 24 hours a day. That would offer total peace of mind and reassurance that everything is operating as it should. Meascon allows you to do exactly that. It puts you in control of your meters, ensuring accurate readings and consistent performance for a better operation.

Providing real-time, round-the-clock visibility of the performance of your ultrasonic meters, Meascon helps you move to true condition-based monitoring. It lets plants conduct meter maintenance only when required, gather evidence for extended periods between calibrations, and gain confidence from continuous validation of metering systems.

With a diagnostic dashboard, the simple to use software offers a real-time, at-a-glance overview of gas metering stations. Warning levels and alarms alert users to problems before they occur, and help minimize measurement uncertainty and unexpected down time. Meanwhile, detailed data analysis lets users drill down to make informed decisions on maintenance and recalibration. Comprehensive data tracking also supports third-party audits and metrological approvals.

Meascon lets you cut the costs of unnecessary calibration and the costs of lost and unaccounted for gas from faulty measurements. Meascon also extends beyond the plant, so when meters do return for periodic calibration, that data is also captured. This provides an inter-comparison between individual calibrations and also between calibration facilities if applicable. All this helps ensure that the calibration results are transferred from the laboratory to the field, and that the meter is monitored continuously throughout its lifespan.

With a connected solution, users can easily share data with others across the enterprise and with preventative maintenance schedules. This is essential in order to accelerate diagnosis of issues and reduce service engineer site visits. With a range of service levels available, including Total Care, plants can even choose to outsource their entire meter monitoring operation to Honeywell through on-site server or the Cloud.



FEATURES & BENEFITS

- Real-time, 24/7 condition-based monitoring
- Extend periods between calibration (subject to licensing authority and/or contractual agreement between partners)
- Switch from time-based or risk-based maintenance to maintenance as required
- Detect and diagnose meter or process issues quicker
- Fewer service engineer site visits
- Reduce lost and unaccounted for gas
- Meter audit trails for third parties and metrology approvals
- Import historical logged data from legacy systems to create reference files
- Total Care service for remote round-the-clock meter monitoring and reports.



Technical Specifications

Technical Details	
Diagnostics Checks	Velocity of Sound Check against AGA10 Path Performance Velocity of Sound Ratio Test Flow Profile Factor Asymmetry Factor Swirl angle Velocity of Gas Path Ratio Automatic Gain Control (AGC) Level Path AGC Level Ratio Comparison SNR (Signal to noise ratio) test AGC level A vs. B Mismatch Relative timing difference Turbulence
Calculations	AGA8 and AGA10, calculations.
Supported Ultrasonic Gas Meters	Q.Sonic ^{max} Q.Sonic ^{plus} TwinSonic ^{plus} Q.Sonic-3C, -4C and -5C Q.Sonic-3S and -5S
Supported Flow Computers	enCore FC1, FC2000, Omni, Emerson, SFC3000, (Any flow computer which supports Modbus)
Supported Chromatograph	Encal3000, ABB, Daniel, Siemens, (Any GC which supports Modbus)
Interfaces	Ethernet, Serial RS485/232
Protocols	Modbus TCP/IP (client and server) Modbus RTU (master and slave) Uniform MMS OPC DA server XML Hart master
System Requirements	OS: Microsoft Windows 7 Professional (64 bit) Processor: i5 2.7 GHz Memory: 4GB RAM Hard disk: 2x HD 320 GB (RAID 1) (depending on total streams)

For more information

To learn more about Honeywell Meascon Gas Solutions, visit www.honeywellprocess.com or contact your Honeywell account manager.

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