



THERMAL MASS FLOW METERS FOR COMPRESSED AIR AND OTHER AIR FLOW APPLICATIONS

COMPRESSED AIR FLOW MONITORING

Compressed air generally uses more electricity than any other type of equipment. Sage Insertion Style Thermal Mass Flow Meters can help identify leaks in a compressor system, track overall usage to improve plant efficiency, and help departments reduce consumption. Thousands of dollars can be saved. For example, if a compressor system running at 100 psi had total leaks of 1/4", it would pass 100 CFM of unused compressed air. Based on 24 hours and 12 cents a KW/H, the annual wasted power would exceed \$20,000!

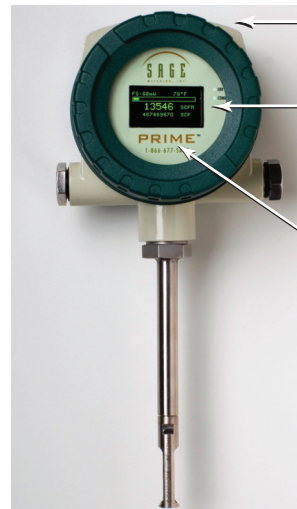
Sage Insertion Meters measure direct mass flow and have the sensitivity to detect even a few SCFM out of a thousand SCFM, so detecting leaks is an easy matter. The portability and ease of installation, allows many check points with a single Flow Meter. Simply insert the probe into the installed Isolation Valve Assembly to the recommended insertion depth. The mass flow rate, total and temperature are reported on the display. In addition, it has a 4-20 mA output of Flow Rate as well as a Pulsed Output of Totalized Flow.

For additional information, contact your local factory trained Sage representative (see www.sagemetering.com and click on the Contacts Tab to locate your nearest rep), or contact Sage Metering at 866-677-7243 to assist you with your application.

OTHER THERMAL MASS FLOW METER AIR FLOW APPLICATIONS

Sage Metering is your source for monitoring, measuring and controlling the gas mass flow in your industrial process, amongst which are numerous applications for air flow, which include: Aeration flow, air injection flow, air purging, batching vessel inlet air flow, blow molding air, blower air, combustion air flow, compressed air flow, condenser air flow, cooling air flow, drying air flow, engine inlet air flow, exhaust air flow, heat exchanger air flow, HVAC, incineration flow, leak testing, pulverizing air flow, pump flow, sealed air flow, secondary treatment air and vent air flow. Many of these applications will help comply with environmental regulations, increase productivity, as well as reduce energy costs. Sage has over 100 years of combined experience in delivering high performance, NIST traceable, in-line and insertion thermal mass flow meters for a wide variety of municipal and industrial needs. Furthermore, the Sage Metering management team is dedicated to providing you with the performance and customer support that you deserve.

See Sage Metering product brochure for additional information and product benefits.



Dual-Sided NEMA 4 Enclosure, with large easy-to-access terminals in rear compartment

Features a very high contrast display of Gas Flow Rate, Total and Temperature, visible outdoors

Photocell activated Screen Saver extends display life

Features In-Situ Calibration Check

MAJOR BENEFITS OF THERMAL MASS FLOW MEASUREMENT

- Direct Mass Flow – No need for separate temperature or pressure transmitters
- High Accuracy and Repeatability – Precision measurement and extraordinary repeatability
- Rangeable over 100:1 and resolution as much as 1000 to 1
- Low-End Sensitivity – Measures as low as 5 SFPM (e.g., 1 SCFM in a 6" pipe)
- Negligible Pressure Drop – Will not impede the flow nor waste energy
- No Moving Parts – Eliminates costly bearing replacements, and prevents undetected accuracy shifts
- Dirt Insensitive – Provides sustained performance
- Ease of installation and convenient mounting hardware

SPECIFIC BENEFITS OF SAGE THERMAL MASS FLOW METERS

- Calibration milliwatts (mw) is continuously displayed, providing for ongoing diagnostics, and in-situ calibration check
- Rugged, user-friendly packaging with easy terminal access
- Low power dissipation, under 2.5 Watts (e.g. under 100 ma at 24 VDC)
- Powerful state-of-the-art microprocessor technology for high performance mass flow measurement and low cost-of-ownership
- Proprietary digital sensor drive circuit provides enhanced signal stability and unaffected by process temperature and pressure changes
- Remote Style has Lead-Length Compensation. Allows Remote Electronics up to 1000 feet from probe; Explosion Proof Junction Box has no circuitry, just terminals (suitable for harsh environments)
- Field reconfigurability via Addresser software
- Captive Flow Conditioners for Insertion Meter applications, optional