

MICRO MOTION SPECIFIC GRAVITY METER FOR HYDROGEN PURITY

Safely and Efficiently Monitor Gases in Hydrogen Cooled Generators

Emerson's Micro Motion Gas Specific Gravity meter (SGM) is the industry standard for direct measurement of gas molecular weight and is the only product that offers continuous online measurements, as well as the highest accuracy and resolution available today. Capable of responding quickly and dynamically to process conditions, the SGM is also able to self compensate for gas compressibility.

Hydrogen purity is a critical measurement for safety and efficiency within hydrogen cooled generators. For normal operation, H₂ in air measurement is needed. For purging H₂ in CO₂ or N₂, and CO₂ or N₂ in air measurements are required.

By selecting appropriate calibration gases, the SGM can give percent ratios of these binary gas compositions on up to four different outputs. These outputs may be selected according to the operating mode, which makes it the ideal solution for hydrogen cooled generator applications.

Key Specifications

Accuracy	up to ±0.1% (reading)
Repeatability	±0.02% (reading)
Wetted Materials	Ni-span C 902, Aluminium Alloy, 316L Stainless Steel
Certification*	ATEX II1G EEx ia IIC T5, CSA CUS C1 D1 Grps A, B, C & D, T4
Input Pressure	up to 100 bara (1450 psia) (SCS)

*Components have CSA or ATEX certification

Features and Benefits

- Continuous measurement
- Approved for hazardous areas
- Virtually maintenance free
- Easy installation

For detailed performance of the SGM Gas Specific Gravity meter, go to: www.emerson.com/density

For further information, contact your local Emerson sales team.



SGM Gas Specific Gravity meter is designed for the Specific Gravity measurement of clean, dry gas.



SGM Gas Specific Gravity Meter measures H₂ purity for efficient operation and safely monitors gas purging process before maintenance on a H₂ cooled generator can be performed.

MICRO MOTION™

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