Micro Motion® Specific Gravity Meter for Hydrogen Purity

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.

About Hydrogen Purity
Hydrogen purity is a critical measurement for safety and efficiency within hydrogen cooled generators. For normal operation, H_2 in air measurement is needed. For purging H_2 in CO_2 or N_2, and CO_2 or N_2 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.

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

Specifications

The general specifications listed below are typical performance values.

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

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 125 bar (1812 psi) (Sample Conditioning System)

For detailed performance of the SGM or the Pressure Control System, go to:

www.emersonprocess.com/micromotion/products/index-density.html

www.tescom.com/products/icd/icd06/

***Components have CSA or ATEX certification**

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EMERSON™
Process Management

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