

Gas Density & Concentration Meter

MARKET NEED

Gas density, specific gravity and binary concentration sensing is needed for the energy, semiconductor, medical and chemical processing markets. The meter is UL and ATEX certified for flammable gases.

ISSYS SOLUTION

ISSYS has developed a small, unique gas density meter that can satisfy the requirements for a variety of markets. It is based on MEMS technology using a resonating micro tube similar to those found in Coriolis meters. Customer safety in harsh environments has been the driving force of many of the features of the meter. An optional external pressure sensor is available to continuously compensate for changes in gas pressure.



Target Markets:

- Methane, Ethylene, Gas Blending
- Hydrogen Fuel Cells and Concentrations
- Petrochemical & Steel Processing
- Semiconductor Processing
- Medical-Oxygen, Nitrous Oxide, Anesthesia
- Insulating Transformer Gases SF₆

Features & Options:

	<u>Subject to Modification</u>
▪Outputs	Density, Concentration
▪Density Range	0 to 30 kg/m ³
▪Meter Temperature Output	-20°C to 60°C
▪Operating Pressure	Maximum 20 bar
▪Optional Pressure Sensor	
▪Digital Outputs	RS232 or USB
▪Analog Outputs	Qty 2, 4-20mA
▪Process Connections	Compression fittings
▪Data Logging Option	2GB capacity
▪Protection Type	IP 67/NEMA 4X
▪Approvals	CE
▪Ex Approvals	ATEX II 2 G Ex ia II C T4, UL/CSA Cl. 1 Div. 1 ABCD

Measures:

Density
Binary Concentration
Sensor Temperature
Pressure (option)

