



BROCHURE

Hydrogen-Moisture-Sensor

Dynamic Ratings

Distributed by AKRIBIS



Protect Transformers with All-In-One Hydrogen, Moisture, Temperature and Pressure Measurement

Dynamic Ratings multi-parameter sensor combines four critical measurements for monitoring of critical power transformers: Hydrogen, moisture, pressure and temperature. By combining these parameters into a single low cost and maintenance free sensor, asset managers have the ability to correlate data to get better trending of hydrogen and moisture values. This allows them to detect potential problems in critical assets before a catastrophic failure occurs and avoid power outages.

The simplicity of the design and full SCADA integration capabilities of the sensor uniquely position it for fleet wide deployment in the distribution system or larger manufacturing facilities because there is nearly zero required maintenance resources to keep it operational. With the data available from the hydrogen and moisture sensor, asset owners can now properly prioritize which transformers are nearing end of life and schedule them for replacement more efficiently, while extending the service life of other units and deferring capital expenditures.

Easy to Install

- Fully Integrated with Dynamic Ratings [B100](#) for comprehensive monitoring solution
- Stand alone sensor can be integrated into back office systems with SCADA protocols
- Compatible with Dynamic Ratings [Rotating Wetwell Valve](#) for improved circulating oil access and eliminating downtime with sensor replacement

Low Maintenance

- No calibration gases
- No carrier gases
- No regularly scheduled maintenance items

Multi-Parameter

- Hydrogen
- Moisture
- Pressure
- Temperature



Hydrogen + Moisture Sensor Specifications

Operating Temp	-40 to 70°C (-40 to 158°F)
Storage Temp	-40 to 85°C (-40 to 185°F)
Insulating Liquid Supported	Mineral oil, silicone, natural ester, synthetic ester
Voltage Input	12 - 30 VDC
Max Power Consumption	12 W
Output Signal	3 wire RS-485, Modbus RTU, 5 pin M16 connector for power and communication

Sensors Performance Parameters

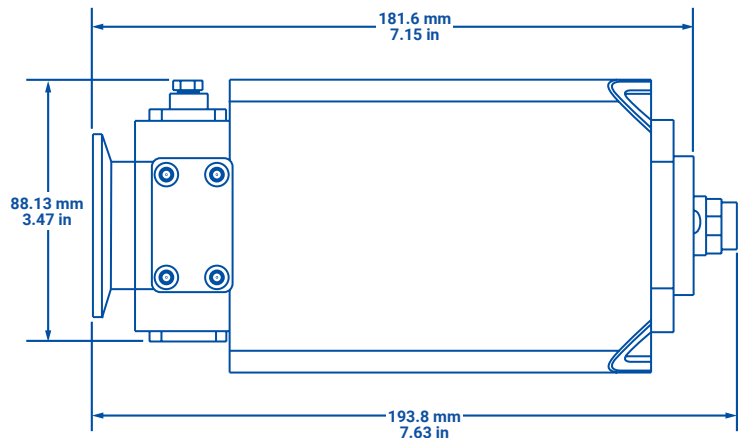
	Temperature	Hydrogen	Moisture	Pressure
Measurement Range	-40 to 125°C (-40 to 257°F)	25 to 5000 ppm	0 to 95% RS 1 to 10000 PPM	0 to 205 kPa
Accuracy	±0.1°C	20% of reading or ±25 ppm, whichever is greater	±2% RS	±2% FS

How To Order

Part Number	Description
SE-039	Hydrogen, Moisture and Pressure Sensor (includes 1 ½" thread adaptor and rugged 5m (16.4ft) power and communications cable) <i>*1" and 2" adaptor also available upon request.</i> <i>**10m and 20m cable options also available upon request.</i>



**Pictured with a 1-1/2" thread adaptor*



An ISO 9001, ISO 14001, ISO 27001, ISO 45001 Certified Company.

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