TOTUS G1

Hydrogen and Moisture Sensor

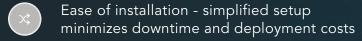
TOTUS G1 is the economical solution for your transformer monitoring enabling real time fault detection. Affordable, reliable, and easy-to-deploy monitoring for essential assets.

Transformer failures can have a significant impact on grid reliability, safety and operational efficiency. Early detection of the presence of risks and the ability to act is critical.

The TOTUS G1, part of the TOTUS family, is a high-performance online hydrogen (H₂) and moisture in oil monitoring solution for transformers. Designed for small to medium-sized and lower criticality transformers, the TOTUS G1 alerts operators to the presence of potential failure, enabling prompt action to diagnose and action any potential faults. Seamlessly integrating with TOTUSPRO software, asset managers can remotely access transformer data, set alarms and react quickly to potential risks before they escalate.

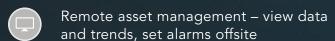
Key Benefits















APPLICATIONS

- » Small and medium-sized distribution transformers
- » Renewable energy transformers
- » High-volume transformer fleets







FEATURES



Measure hydrogen and moisture levels in real-time



Web-based software tools available via secure browser access



Flexible integration with other Camlin Energy monitoring solutions



Advanced configurable alarm capabilities



Technical Specifications

HYDROGEN	
Measurement Range	25 - 5000 ppm
Accuracy	±20% of reading or ±25 ppm, whichever is greater
Repeatability	±10% of reading or ±25 ppm, whichever is greater
Response Time	<60 minutes once H2 reaches the sensor

ENVIRONMENTAL	NVIRONMENTAL	
Operating Temperature	-20° C to 70° C	
Storage Temperature	-20° C to 85° C	
Ambient Humidity	0 to 100% RH, condensing	
Oil Humidity	0 to 95% RH, non-condensing	
Ingress Protection	IP68	

MOISTURE	
Measurement Range	0 to 95% RS
Accuracy	±2% RS
Panastability	+2% DC

MECHANICAL	
Dimensions (H x W x D)	19.4 x 8.8 x 6.7 mm
Weight	1.82 kg

PRESSURE	
Measurement Range	0 to 205 kPa (0 to 30 psia) Absolute
Accuracy	± 2% FS
Repeatability	± 0.6 kPa (± 1 PSI)

COMMUNICATIONS CABINET	
Dimensions (H x W x D)	380 x 300 x 210 mm
Weight	15kg
Operating Temperature	-10°C to 50°C
IP rating	IP66
Material	Stainless Steel AISI 316L
Power Supply	AC: 90-130 Vac or 210-250 Vac 47 - 63Hz
Mounting Options	Stand Mount, Transformer Mount, Wall mount.
Protocols	ModBus RTU, ModBus TCP, DNP3, IEC61850
Carriers	Rs-485, Ethernet, Fibre, Cellular

TEMPERATURE	
Measurement Range	-40 to 125° C
Accuracy	± 0.1° C
Repeatability	<2° C

OTHER	
Calibration Interval	No periodic calibration required
Certifications	IEC 60068-2, IEC 60068-2-30, IEC 60529, EN55011, EN61000-4, EN 61326-1, FCC Part 15, IEC 61010,

INSULATING LIQUID	
Operating	-20 to 105° C
Insulating Liquid Types	Mineral oil, silicone, natural ester, synthetic ester