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 (H_2) 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.

APPLICATIONS

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

Key Benefits

$ Economical monitoring solution to large asset fleets with CapEx budgets in mind

⤭   Ease of installation - simplified setup minimizes downtime and deployment costs

🖥   Integrated software – combine mutltiple asset data in TOTUSPRO software

⬓   Scalable – monitoring upgrades to protect additional transformer components

🖥   Remote asset management – view data and trends, set alarms offsite

⚙   Low cost of ownership, no calibration required

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

MOISTURE

Measurement Range	0 to 95% RS
Accuracy	±2% RS
Repeatability	±2% RS

PRESSURE

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

TEMPERATURE

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

INSULATING LIQUID

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

ENVIRONMENTAL

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

MECHANICAL

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

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

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,