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# TOTUS DGA

Advanced Monitoring for  
Power Transformers



**TOTUS DGA** (Dissolved Gas Analysis) is recognised as the cornerstone of successful transformer management with on-line DGA now globally implemented.



Access data from any smart device

Overview

**TOTUS DGA** from Camlin Power represents the next generation of monitoring for power transformers.

**TOTUS DGA** incorporates the robust design, performance and field quality that allow Asset Managers to more confidently manage and extend the life of their critical assets.

**TOTUS DGA** is part of the **SIGMA TX** overall transformer monitoring system from Camlin Power.

Key Features

- Photo-acoustic Spectroscopy for 9-gas DGA
  - Accurate, reliable, field proven
  - No consumables or calibration gas requirements
  - Market-leading specifications.
- Embedded webserver and web-based software
  - Full control and comms via secure, flexible web-access
  - Includes powerful apps for smartphone or tablet
  - Additional PC software available for off-line viewing
  - Full compatibility with asset management systems.
- Fully incorporated touch LCD screen
  - On-site analysis and graphing
  - Easy to navigate control of unit
  - Web access for support and comms.
- Extensive comms and I/O options for modern asset owner
  - Data-hub for third party monitors
- Load and temperature monitoring as standard
- Rugged, modular design to highest industrial standards



Camlin Power SIGMA TX installed on a 110kV / 33kV transformer

Specification

Parameter	
H <sub>2</sub>	2 - 5,000 PPM
CH <sub>4</sub>	1 - 25,000 PPM
C <sub>2</sub> H <sub>6</sub>	1 - 25,000 PPM
C <sub>2</sub> H <sub>4</sub>	1 - 25,000 PPM
C <sub>2</sub> H <sub>2</sub>	0.1 - 25,000 PPM
CO	1 - 25,000 PPM
CO <sub>2</sub>	3 - 20,000 PPM
O <sub>2</sub>	100 - 150,000 PPM
N <sub>2</sub>	100 - 150,000 PPM
H <sub>2</sub> O (RS)	0 - 100% RS
Accuracy	± 3% or ± LDL (whichever is greater)

Enclosure	
H x W x D	600 x 800 x 300 mm
Weight	48 kg
IP rating	IP55
Material	304 SS (316 option)

Data	
Measurement frequency	1 - 24 hours
Storage	16 GB microSD card, 15+ years

Alarms	
High-vis LED's	Red, Amber, Green
Alarm relay contact	3 x NO or NC, user configurable

I/O	
Analog inputs	3 x PT100, 3 x 4 - 20 mA, 1 x Load CT
Digital inputs	2

Communications	
Protocols	ModBus, DNP3 & IEC61850
Carriers	RS232, RS485, Ethernet, GPRS, Fibre
HMI	7" High Resolution Colour LCD

Power	
Voltage	85-132 / 187-267 VAC
Current (max)	8 A

Environmental	
Operating temperature	-40 to +55 °C (option for -60 °C)
Operating humidity	5 - 95% RH, non-condensing
Oil temperature range	-40 to +120 °C



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