Transformer Total Combustible Gas (TCG) Tester

emt
Insulating Gas Analysis & Handling

Industry compliant TCG tester for determination of oil quality and fault identification in transformers.

Total Combustible Gas (TCG) measurements provide utility operators an onsite method for understanding the health of a transformer.

Performed at regular intervals, TCG testing can identify changes in the condition of the transformer by measuring the gasses released from the oil into the Nitrogen Headspace.

A complementary test to DGA, the EMT TCG Tester provides a low-cost, simple and quick test giving immediate results; saving time on oil samples, shipping and expensive lab testing.

Measurement results can be used in accordance with IEEE C57.104 guidelines to understand conditions within the transformer and faults that are occurring.

Leaking Nitrogen headspace gas through damaged flanges and connections is also a costly problem for utilities.

The EMT TCG Tester solves this problem through its "Leak Detection" mode. Providing ppm measurements of combustible gases, the EMT Tester quickly identifies leaking locations saving maintenance time and cost.

The EMT TCG Tester provides superior features & benefits over traditional TCG testing systems:

- Simple, intuitive user interface in a small, lightweight, modern device
- No need for pre-test calibrations and bulky gas cylinders for operation.
- Pumped dilution module allows testing on transformer even when under vacuum
- ppm Leak Detection mode for Nitrogen headspace leak detection
- TCG results and GPS location data logged within instrument for enhanced analysis
- Advanced filtration modules protects TCG Tester from oil ingress and damage
- Calibration and service capable by operators reducing operating costs and service time

For more information or a demonstration contact
sales@emt.global or visit **www.emt.global**

EMT Transformer Total Combustible Gas Tester

Technical Specification

EMT TCG Tester Specifications

Dimensions & Weight	190mm x 98mm x 107mm (7.4" x 3.8" x 4.2") C/w Rechargeable Battery: 1.4Kg (3.1lbs) C/w Alkaline Battery: 1.3Kg (2.7lbs)
Operating Conditions	-20°C to 50°C (-4°F to 122°F) 0-90% RH (Non Condensing)
Power	**Li-ion Battery:** 20 hrs (6hrs Recharge time) **Alkaline Battery:** 15hrs usage (3x size D LR20)
Measurement Range	**TCG Mode:** **Range:** 0-100% TCG **Resolution:** 0.01% (0.05% Increments) **Leak Mode:** **Range:** 0-1000ppm **Resolution:** 1ppm (1ppm Increments)
Datalogging	500 Session Logs, includes GPS Location, Date, Time, Gas Readings, Alarm Activation & Calibration Data
Calibration & Warranty	Calibration: 1 Year (User or EMT) General Service: 2 Years (EMT) Warranty Period: 1 Year

EMT Diluter Specifications

Dimensions & Weight	170mm x 260mm x 13mm (6.75" x 10.25" x 5.25") 1.35 Kg (3lbs)
Operating Conditions	-20°C to 50°C (-4°F to 122°F) 0-90% RH (Non Condensing)
Power	**Alkaline Battery:** 15hrs usage (3x size AA)
Flow Range	0.2-2L/min Operating at 1.2L/min; 0.6 L/min per channel
Calibration & Warranty	Calibration: 1 Year (User or EMT) General Service: 2 Years (EMT) Warranty Period: 1 Year

The EMT TCG Tester is supplied in kit format, which includes:

- EMT TCG Tester
- EMT Gas Dilution Module
- Battery Charging Station
- Sample Hoses
- Oil & Particulate Filtration System incl spare filters

For details of your local EMT distributor, for further information on our products or to request a demonstration please contact us:

Email: sales@emt.global
www.emt.global

UK Head Office
Unit 7 Marston Business Park
Lower Hazeldines
Marston Moretaine
Bedfordshire
MK43 OXT
United Kingdom

bsi ISO 9001 Quality Management Systems CERTIFIED

MK27-0126