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TRANSPORT X
Portable Dissolved
Gas Analysis

TRANSPORT X

Accurate knowledge of the condition of transformers is essential for all electrical networks. This information allows valuable assets to be maximised and expensive failures to be avoided.

Dissolved Gas Analysis (DGA) is an established technique and is recognised as the most important test in monitoring power transformers. It is now being successfully extended to other oil filled equipment such as tap-changers and circuit breakers.

The **Transport X** is a new generation of DGA for electrical companies. This portable unit uses new technology to give accurate, reliable results on-site in a matter of minutes. The **Transport X** represents an invaluable commodity for Asset Management.



- **Accurate & Sensitive**
Wide detection ranges with excellent accuracy for all fault gases.
- **Moisture Analysis**
Gives measurement of water content in oil.
- **Simple**
Extremely easy step-by-step operation. No extensive calibration, set-up or interpretation required.
- **Fast**
On-site results in a matter of minutes.
- **No Consumables**
No calibration gases or carrier gases.
- **Portable & Rugged**
10kg (22lbs) in a rugged convenient carry case.
- **DGA Diagnostics**
Includes DGA diagnostic algorithms - Rogers' Ratios, Duval's Triangle and IEEE Key Gas. Also user-settable Caution and Warning thresholds on all gases.
- **Test Gas samples**
Ability to also test gas samples taken from Buchholz Relays.
- **PC Software**
Includes TransportPro PC software package to allow storage, exporting, trending and analysis of results.

PORTABLE DISSOLVED GAS ANALYSIS



The **Transport X** uses Photoacoustic Spectroscopy to achieve unprecedented performance for DGA equipment. Extensive field and laboratory use worldwide has proven the **Transport X** gives highly reliable results and the unit is genuinely suitable for field conditions, with straightforward operation.

Transport X minimises the risk of carry-over between tests. With the ability to go from high gassed samples (such as tap-changers) to low gassed samples (such as main tanks) with no contamination of results the user can confidently test all types of oil filled equipment.

Internal diagnostic software helps to translate ppm data into useful information. Established algorithms assist the user to analyse the condition of the transformer.

The accompanying **TransportPro** PC software (Fig 1) allows the user to download records for trending and further diagnosis.

The theory behind photoacoustic spectroscopy was first discovered by Alexander Graham Bell in 1880, but it is only with the advent of modern technology it has become useful in this application.

Additional Features

- Records compatible with TOA (from DeltaX Research).
- Up to 20,000 records stored in internal memory.
- Embedded thermal printer gives hard copy of results on-site.
- Touch screen controls for easy operation.

Additional Options

- 'System Check Kit' for verification of unit operation.
- Gas test kit to allow analysis of gas samples.
- Transit Case. Provides extra protection for air travel
- Sample Cooler. Allows hot oil samples to be cooled for testing in minutes.

Related Products

- Transfix - On-Line DGA for transformers
- TapCheck - On-Line DGA for LTC's
- Profile P2 - Circuit Breaker Analysis

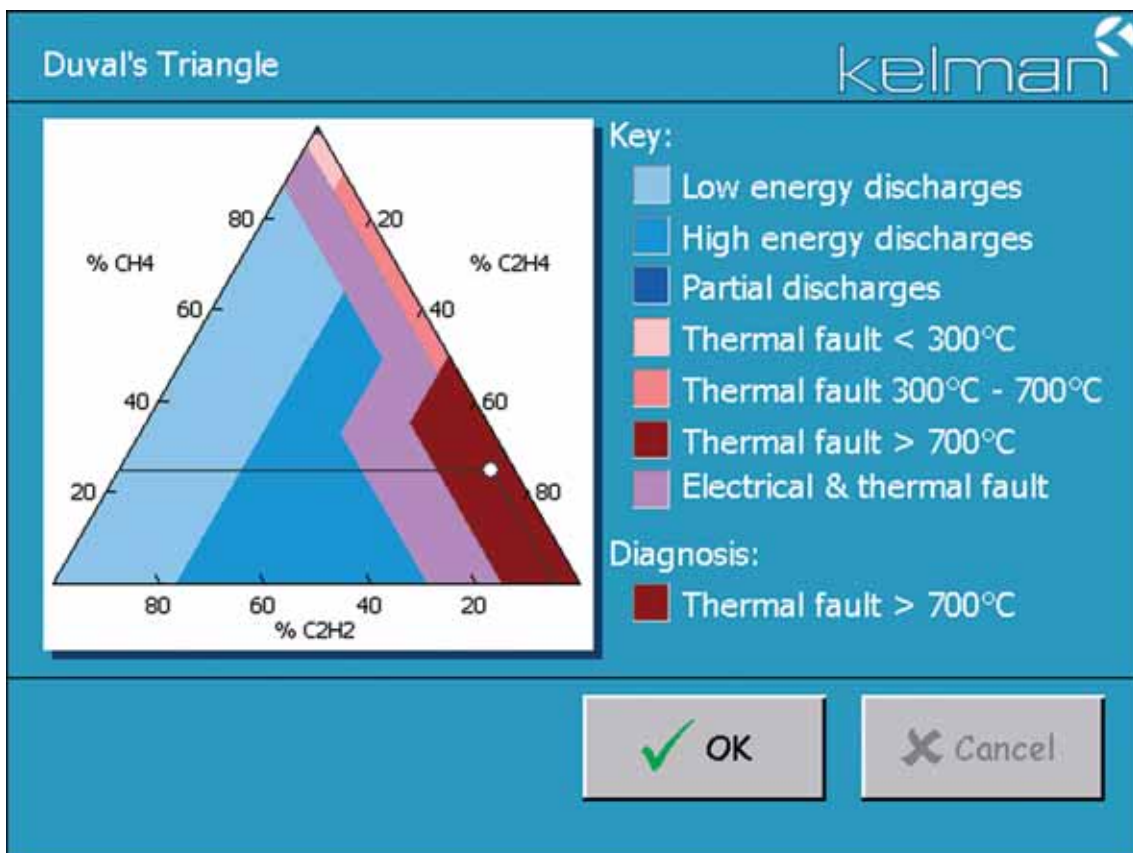


Fig 1 - Embedded diagnosis software.

TECHNICAL SPECIFICATION

PARAMETER	VALUE/MEETS
COMPOUND	MEASUREMENT RANGE (PPM)
HYDROGEN (H ₂)	5 - 5,000
CARBON MONOXIDE (CO)	1 - 50,000
CARBON DIOXIDE (CO ₂)	2 - 50,000
METHANE (CH ₄)	1 - 50,000
ACETYLENE (C ₂ H ₂)	1 - 50,000
ETHANE (C ₂ H ₆)	1 - 50,000
ETHYLENE (C ₂ H ₄)	1 - 50,000
WATER (H ₂ O)	± 5PPM (Note: Gas samples LDL is 100ppm for all gases).
TEMPERATURE RANGE	0-50°C
POWER SUPPLY	100-250Vac; 47-63Hz; 12W
OUTPUT DIGITAL	USB
OUTPUT HARDCOPY	2" THERMAL PRINTER
WEIGHT	10kg (22lbs)
SIZE	170 X 340 X 460mm
OIL SAMPLE VOLUME	50ml
GAS SAMPLE VOLUME	5ml

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