

HF-TC-644

Dissolved Gas Analyzer



This Dissolved Gas Analyzer precisely measures multiple dissolved gas components in transformer insulating oil. It detects thermal and discharge faults inside transformers, offering effective data support for power equipment condition evaluation and risk early warning.

Key features

- Built-in 10/100M adaptive Ethernet port and IP protocol stack, supporting remote data transmission through LAN and Internet for easier laboratory deployment and data management.
- Three independent connection channels enable real-time monitoring by on-site operators, department supervisors and higher-level management.
- Optional NetChrom TM workstation can control multiple chromatographs simultaneously, simplifying document management and lowering laboratory operation costs.
- Chinese and English bilingual operating interface, freely switchable by users.
- Temperature control zones support custom naming for convenient operation.

Technical specifications

Parameter	Value
Display	192×64 dot matrix Chinese LCD
Temperature Control Zones	6 channels
Temperature Control Range	Ambient +5°C ~ 400°C; increment: 1°C; accuracy: ±0.1°C
Programmed Temperature Ramp Stages	16 stages
Heating Rate	0.1 ~ 40°C/min
Gas Circuit Control	Mechanical valve control or electronic mass flow control (optional)
External Events	4 channels
Sampling Options	Packed column, capillary column, six-port gas sampling valve, automatic vacuum sampling
Detectors	Up to 5; FID, TCD, ECD, FPD, NPD (optional)
Injection Mode	Manual / Automatic
Communication Interface	Ethernet: IEEE802.3
Flame Ionization Detector (FID)	Detection limit $\leq 3 \times 10^{-12}$ g/s
Baseline noise	$\leq 5 \times 10^{-14}$ A
Baseline drift	$\leq 1 \times 10^{-13}$ A/30min
Linear range	$\geq 10^7$
Thermal Conductivity Detector (TCD)	Sensitivity $S \geq 10000$ mV·mL/mg (gain ×1, ×2, ×4, ×8 optional)
Baseline noise	≤ 20 uV
Baseline drift	≤ 30 uV/30min
Linear range	$\geq 10^5$
Electron Capture Detector (ECD)	Detection limit $\leq 1 \times 10^{-14}$ g/mL (Lindane)
Baseline noise	≤ 0.03 mV
Baseline drift	≤ 0.2 mV/30min

Parameter	Value
Linear range	$\geq 10^4$
Radioactive source	^{63}Ni
Flame Photometric Detector (FPD)	Detection limit (S) $\leq 2 \times 10^{-11}$ g/s, (P) $\leq 1 \times 10^{-12}$ g/s (methyl parathion)
Baseline noise	$\leq 3 \times 10^{-13}$ A
Baseline drift	$\leq 2 \times 10^{-12}$ A/30min
Linear range	$S \geq 10^3, P \geq 10^4$

Compliance and documents

Applicable standards	[TO BE CONFIRMED] standard applied to this model
Calibration certificate	[TO BE CONFIRMED]
Optional accessories	[TO BE CONFIRMED]

Warranty and support

12-month warranty on every exported instrument. English operation manual and remote video guidance at commissioning. T/T, L/C at sight and deposit terms for bulk orders; sea, air or rail shipping.