



Flue Gas Analyser

Tempest 50

Tempest 50 is the fast and economical way to measure the composition of boiler flue emissions, thus reducing the need for boiler strip-down when the appliance is working safely and efficiently.

Tempest 50 is rugged, portable and flexible, this flue gas analyser conforms to the latest British Standards (BS 7927) and will operate direct from the mains or from the onboard rechargeable battery.

Features

Construction

- Robust design
- Splash Proof
- Easy to use Menu
- Back Lit Display
- High Quality Stainless Steel Probe
- Soft Carry Case

Measures

- Carbon Monoxide and Oxygen.
- Calculation of Carbon Dioxide, Boiler CO/CO₂ Ratio and Efficiency Reading
- Selectable Fuel Types
- Gross or Net Efficiency Selection
- Optional NO sensor

Pressure

- Positive & Negative Pressure with Differential Measurement
- Pressure Measurement Zero Facility
- User Selectable Scales

Temperature

- Differential Temperature Measurement with Two Thermocouples
- Outlet, Net and Inlet Temperature Displays

Reporting

- Logging of 100 Flue Gas Analysis Reports
- Built-in Printer
- Factory Set Personalised Report Heading
- Real Time Clock
- Data Output to Printer or PC



Tempest 50



Specification

Instrument

Operating temperature range	-5°C to 50°C (23°F to 122°F)
Battery	Rechargeable Ni-Cd. Life 4-5 hours.
Charger input voltage	115V or 230V; 50/60Hz AC
Fuels	Natural gas, light oil, heavy oil, propane, butane, coal, coke
Display	4 lines, 20 characters per line. Backlit LCD
Header	Factory set
Data logging	100 set of readings
Time and date	24 hour real time clock
Dimensions	280 x 120 x 112mm (11"x 4.7"x 4.4")
Weight	1.3kg (2.86lbs)
Certification	Designed to meet BS7927 British Standard for portable flue gas analysers
Options	NO sensor Pressure (gas flue differential)

Probes

Standard efficiency probe

Construction	Pistol grip; 250mm probe length; 2500mm (10') hose length
K-type thermocouple	Accuracy +/- 0.3%; +/- 1°C (+/- 1.8°F)
Maximum temperature	800°C (1,472°F)
Options	High temperature to 1,100°C (2,012°F), 1m insertion length



Gases

	range	resolution	accuracy
Oxygen	0 - 25%	0.1%	+/- 0.3%
Carbon Monoxide	0 - 10,000ppm	+/- 1ppm	<100ppm; +/- 5ppm >100ppm; +/- 5%
NO (optional)	0 - 1,000ppm	+/- 1ppm	<100ppm; +/- 5%
Carbon Dioxide (calculated)	0 - 25%		
CO/CO ₂ ratio	0 - 0.9999		
Combustion efficiency	0 - 100%		

Draught/pressure measurement

Range	+/- 150mbar (+/-61 inWG)
Resolution	0.01mbar (0.4 inWG)
Accuracy	+/- 0.5% fsd

Integrated Printer

Type	Impact with replaceable ribbon
Print width	16 characters, 45mm



Registration No
195563





Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



UK Office

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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.