

Tempest 50 Portable Combustion Gas Analyzer



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

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.

Construction

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

Features

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

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

Pressure

- Positive & Negative Pressure with Differential Measurement
- Pressure Measurement Zero Facility

Temperature

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

Specifications

Operating temperature range	-5° to 50° C
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 sets of readings
Time and date	24 hour real time clock
Dimensions	280 x 120 x 112mm
Weight	1.3kg
Certification	Designed to meet BS7927 standard for portable flue gas analysers
Options	NO sensor Pressure (gas flue differential)

Standard Efficiency Probe

Construction Pistol grip	250mm probe length; 2500mm hose length
K-type thermocouple Accuracy	+/- 0.3%; +/- 1°C
Maximum temperature	800° C
Options	High temperature to 1,100°C 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/CO2 ratio	0 - 0.9999		
Combustion Efficiency	0 - 100%		
Gas leak sensor (option)	20 - 10,000ppm		
Option with NO sensor	0 - 1,000ppm		



Draught/pressure measurement

Range	+/- 150mbar
Resolution	0.01mbar
Accuracy	+/- 0.5% fsd

Integrated Printer

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