

Sprint V

Multifunction Flue Gas Analysers



www.sprint-v.com

TELEGAN
gas analysis technology
by Crowcon

Sprint V - Multifunction flue gas analysers

Based on 30 years experience of combustion and flue gas monitoring Telegan's latest generation Sprint V flue gas analysers provide Heating Engineers and Gas Installers with multiple functionality to assist in commissioning and servicing of gas and boiler installations. Sprint V analysers are compact, lightweight and easy to use and include a magnetic rubber boot to allow mounting on the appliance casing, providing convenient hands free operation. The flue gas sampling probe has an integral thermocouple for flue gas temperature measurement and includes a novel built-in water trap/filter assembly which functions in any orientation.

Sprint V has a graphic screen display providing an intuitive menu structure with mobile phone style navigation, and function selection by a simple button set. Menus allow selection of flue gas analysis and other tests plus settings of fuel type, measurement units and efficiency basis (gross, net or net condensing). Results can be logged to memory or exported to a printer via IR communications. USB connection to PC allows log file uploading and control of analyser settings. Bluetooth™ enabled versions can upload directly to a compatible PDA.

Sprint V is available in four versions to suit differing user requirements. Each is supplied as a complete ready to use kit in a convenient soft carry bag.



Sprint V Functionality

- ✓ Flue Gas Analysis
- ✓ Draft and Differential Pressure
- ✓ Differential Temperature
- ✓ Gas System Integrity Test
- ✓ Gas Escape Test
- ✓ CO Room Test

Product Features

- Full Graphic Display
- Gas inlet with Smart Purge
- Thermocouple Inputs
- Pressure Inputs
- Rugged rubber boot with integral magnets
- Exported directly to an accessory printer using IR communications.

Flue Gas Sampling Probe

- Integral Thermocouple for Flue Temperature measurement
- 250mm insertion length
- Adjustable Depth Gauge
- 2m interconnection line to Sprint V
- Novel Water Trap/Filter assembly

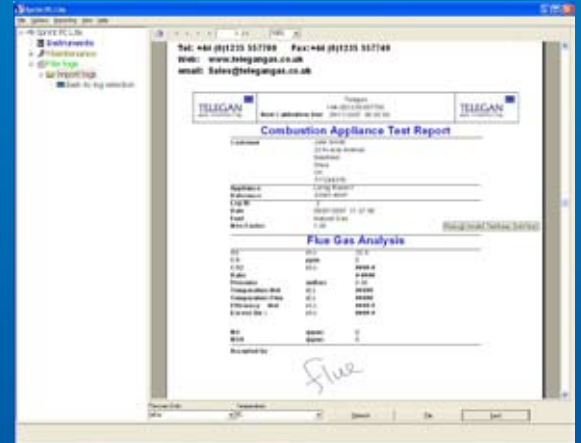
Simple Menu Selection of Settings

- Select fuel from up to 10 pre-loaded types
- Pressure units: choice from nine options
- Temperature in °C or °F
- Efficiency, Gross, net or net condensing
- Date and Time
- Report Header Text

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- Sprint PDA software includes 'Accepted by' signature which can later be included in the PDF report.
- Reports may be stored on PDA, sent via email or transferred to Sprint PC software.
- Sprint V range may be personalised via USB link to Sprint PC software. All reports may be converted to Acrobat format.
- All saved reports may be recalled on-screen, transferred via Bluetooth™ to PDA for signature or uploaded to PC via Sprint PC software.



Combined Water Trap and Filter

The unique split chamber design water trap and dust filter ensures full protection of the instrument and sensors against water carryover during sampling. This novel design operates efficiently in any physical orientation, trapping condensate in the first chamber and filtering particulates in the second. The simple bayonet fastening of the housing ensures very simple and quick disassembly for removal of collected water and replacement of the filter element.

Technical Data

Parameters	Range	Resolution	Accuracy	Detection limit	Response time (t90)	Recovery time
Oxygen	0-25%	0.1%	+/- 0.2%	0.3% v/v	50 sec	30 sec
Carbon Monoxide	0-10,000ppm	1ppm	<20ppm +/- 3ppm >20ppm +/- 5% reading	2ppm	90 sec	60 sec
Nitric Oxide	0-1000ppm	1ppm	+/- 1ppm	1ppm	30 sec	30 sec
Carbon Dioxide (calculated)	0-25%	0.1%	+/- 0.2%	0.2%v/v	50 sec	30 sec
Pressure (mbar, PSI, Pa, hPa, kPa, mmWG, inWG, mmHG, inHG as standard)	+/-200mBar	<20mBar 0.01mBar >20mBar 0.1mBar	+/- 0.5mBar			
Temperature	-50 - 1100°C (-58° - 2012°F)	+/- 1°C	+/- 1°C or 0.3% of reading (best figure)			
CO/CO ₂ ratio	0-0.9999	0.0001				
XSAir	0-250%	1%				
Efficiency	0-120%	0.1%				
Gas Escape Probe	0-10,000ppm natural gas					



Technical Data

Distributor Contact Details

Weight	440g (0.97 lbs)
Dimensions	75 x 168 x 65mm (3 x 6.6 x 2.6 in)
Operating temperature range	-10°C to 50°C (14°F to 122°F)
Operating humidity range	0 to 95% non-condensing
Display	Large graphic blue back lit LCD
Backlight	Intelligent ambient light controlled or settable
Operating time	9 hours
Recharge time	6 hours
Charger/power supply	Mains power pack, available with UK, European or US pins, optional vehicle lighter socket lead.
Charger input voltage	115V or 230V 50/60Hz AC
Enclosure - ingress protection	IP42 - robust protective rubber boot complete with built in magnet
Warranty	2 years
Probe specification	Standard efficiency flue probe, insertion length 250mm (9.9") with adjustable depth gauge maximum temperature 800°C (1472°F) Construction: Ergonomic pistol grip with stainless steel shaft, with in-built thermocouple Protective sheath for thermocouple length 2500mm (9.9'),

Function	Functionality	V2	V3	V4	V5
Standard fuels - selectable from menu*	Natural gas, LPG, heavy oil, light oil, coal, bagasse, biomass, wood, coke and wood pellets (others on request)	✓	✓	✓	✓
Menu	Easy menu navigation and simple soft key operation.	✓	✓	✓	✓
Function buttons/key pad	5 button keypad	✓	✓	✓	✓
Alarm	Carbon monoxide audible & screen alarm for danger levels	✓	✓	✓	✓
Smart purge	Intelligent pump speed control. Built-in flow fail and blockage indication	✓	✓	✓	✓
Carry case	Handy and durable kit hold-all supplied as standard	✓	✓	✓	✓
Water trap/filter	Combined twin chamber high capacity water trap and particular filter, protects instrument from damage	✓	✓	✓	✓
Standards	Designed to meet EN50379 and BS7967	✓	✓	✓	✓
Calibration due	2 week calibration due warning provided by instrument	✓	✓	✓	✓
Data logging reports	Up to 200 reports, depending on type. Log recall on-screen. Output log to PC.	✓	✓	✓	✓
Bluetooth™	Communication to PDA and PC		✓		✓
Flue gas measurement	CO, CO ₂ , CO/CO ₂ ratio, efficiency (gross, net or net condensing), oxygen, XSAir, temperature (°C or °F)	✓	✓	✓	✓
	NO and NOx flue gas capability			✓	✓
Pressure and differential pressure	Differential pressure & dedicated, gas leakage pressure tests.	✓	✓	✓	✓
Differential temperature	Differential temperature with single or twin probes	✓	✓	✓	✓
Carbon monoxide room test	Dedicated carbon monoxide room build up test or BS7967 CO room safety tests	✓	✓	✓	✓
Gas escape test	Via gooseneck sensor probe fitted with ultra-bright white LED searchlight	Option	Option	Option	Option

* In some applications additional external filtering may be needed

This specification may change with out prior notice.



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