

# Quick Start Guide - Sprint Pro 1

## IMPORTANT NOTES:

Please read the user manual for full instructions on the use of Sprint Pro this guide should be used for a quick reference only (full user manual is available at [www.crowcon.com](http://www.crowcon.com)).

Observe all warnings and instructions detailed in the user manual or as prompted by the analyser.

Before use ensure Sprint Pro is in good repair and do not use if damaged or if calibration has expired.

Sprint Pro must only be used with the Sprint Pro Flue Probe Assembly and always with the water trap and filters in place.

The water trap must be dried after use and before Sprint Pro Flue Probe Assembly is returned to carry case.

Connect the Flue Probe Assembly to Sprint Pro before switching on and do not insert probe into flue until after the zeroing process is complete.

Always start Sprint Pro in clean air.

Sprint Pro will lock out its Test Menu once calibration has expired.

## SWITCH-ON

Press and hold the ON/OFF/ENTER key for two seconds until you hear two beeps. Ensure the gas exhaust outlet on the side of the FGA is not blocked. After warm-up is complete, Sprint Pro will display the *Main Menu* screen.

You can now navigate the menu system using the  $\uparrow$  and  $\downarrow$  soft keys and the  $\leftarrow$  and ESC keys on the analyser.

## SWITCH-OFF

Press and hold the ON/OFF/ENTER button for approximately two seconds until you hear a rising beep. Press the ESC key to abort switch off sequence and return to *Test Menu*. **Note: Unit will purge and shut down once purge complete.**

## PERFORMING TESTS

To enter any test screen, select the required test from the menu and use the soft key marked  $\checkmark$  or  $\leftarrow$ .

To end any test, press the ESC key.

## FLUE GAS ANALYSIS

Select *Flue gas analysis* from the *Test Menu*. The first time this option is entered after each switch on the Sprint Pro will perform a 'zero'. Following a successful 'zero', Sprint Pro will begin taking measurements. Use the soft keys to log or print the results.

Press the ON/OFF/ENTER button to display the four screens available:

Screen 1: O<sub>2</sub>, CO, CO<sub>2</sub>, CO/CO<sub>2</sub> ratio and pressure.

Screen 2: O<sub>2</sub>, XSair, temperature and efficiency.

Screen 3: Combines elements from previous screens.

Screen 4: Temp Flue, Temp inlet, Net Temp.

To perform a manual pressure 'zero', use the soft key marked  $\overline{P=0}$  in flue gas screen 1 or 3.

To change the efficiency readings (Net, Gross – for NetHE see user manual), use the soft key marked  $\eta$  in flue gas screen 2.

Note: The pump will remain on and continue purging for some time after leaving this option to clear any residual gas

## TEMPERATURE TESTS

Sprint Pro can perform a differential temperature test with one or two thermocouple probes. To begin test, select *Diff Temperature* from the *Test Menu*. Check the units displayed are the correct temperature scale. **Note: If no probes are connected Sprint Pro will display #####.**

### Two probe test

Connect both probes to the K-type connectors and place probes in position. The screen will display the temperature of probe 1, probe 2, and the differential temperature. Use the soft keys to log or print the results as required.

### Single probe test

When using only a single probe Sprint Pro will display an additional icon on the screen to allow the first and second reading to be taken separately.

## Summary of screen icons

	Select, pick or action
	Up item or entry
	Down item or entry
	Left field
	Right field
	Start timed test
	Stop timed test
	Restart timed test
	Yes, pass or done
	No or fail or cancel
	Purge or pump running icon
	Select temp 1 (flow) (Differential Temperature Test)
	Select temp 2 (return) (Differential Temperature Test)
	Save log
	Export report/log to IR Printer
	Delete
	Edit value
	Increase value
	Decrease value
	Descend through character list (string edit)
	Ascend through character list (string edit)
	CO Alarm
	Select Net/Gross/NetHE Efficiency

## IR Printer Alignment





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1. Place the probe in position 1 to take the first measurement, T1.
2. Press the soft key icon  to take a snapshot reading of T1. The screen will now display the icon as .
3. Move the probe into position 2 to take the second reading, T2. The screen will display the snapshot of T1, the live probe temperature of T2 and the differential temperature.

Use the soft keys to log or print the results.









#### **ROOM SAFETY TEST**

1. To begin test, select *Room Safety* from the *Test Menu*. Sprint Pro will display the *Room Safety Menu*. Select the appropriate appliance from the list.
2. If required, connect probe to the Sprint Pro and place at the recommended height. **Note: Refer to British standard BS7967 if necessary.**
3. The pump will switch on in readiness for the test. The test will run for the duration required depending on the appliance selected according to BS7967.
4. To start test press the  soft key.


Sprint Pro will emit an alarm if 30ppm (or 90ppm) threshold is exceeded for the CO test. Sprint Pro is programmed with pass/fail criteria for this test. Refer to British Standard BS7967 for further details on performing room safety tests.

To stop the test before the minimum duration is met, press the ESC key.

When the minimum duration is met the  soft key will end the test.

Use the soft keys        or  to select 'Quit test?' Use the soft keys to log or print the results once test is complete.

#### **APPLIANCE SWEEP TEST**

1. To begin test, select *Appliance Sweep Test* from the *Test Menu*.
2. Connect probe to the Sprint Pro and press start to commence test. **Note: Refer to British standard BS7967 if necessary.**
3. When the time period has elapsed Sprint Pro will give an audible indication and the  soft key can be pressed to stop the test. The test will run for the required duration where each sweep must last at least 2 minutes. Maximum allowed CO is 10 ppm; if this level is exceeded the test fails.

To stop the test at any time, press the ESC key. Use the soft keys        or  to select 'Quit test?' Use the soft keys to log or print the results once test is complete.

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