

F6100 Safe-Air Monitor for Breathing-Air Systems



The F6100 Safe Air Monitor is the ideal instrument for those requiring continuous monitoring of their breathing-air supply. Supplied with a wall mounting kit the F6100 is designed to be connected via a T fitting to the breathing-air supply. Once set up the instrument will continue to monitor and data log the air quality at user defined intervals validating the air quality against a range of alternative international standards. In the UK this ensures complete compliance with the relevant requirements of COSHH L5.



The F6100 is mains powered via an adaptor which is supplied with the unit, in case of a power failure an inbuilt rechargeable battery back-up system will provide an additional 30 minutes operating time. The instrument has an intuitive touch screen display, making set up and retrieval of previous test results easy and quick to complete.

The F6100 incorporates electronic cells for measuring carbon monoxide, carbon dioxide, and oxygen. Moisture levels within the breathing air are measured by a dewpoint sensor. The instrument then displays the moisture content in pressure or atmospheric dewpoint levels, as well as providing the concentration in mg/m^3 . It also includes digital airline pressure and ambient temperature readings.

Oil measurements are completed using the Draeger Impactor, which is inserted into a test port on the instrument. The F6100 provides a prompt to the user whenever an oil Impactor test is required and the time interval can again be defined by the user in the set up. The Impactor has no glass or hazard components and can test for

all known synthetic and mineral oils. This port is also compatible with a range of additional Draeger chemical reagent tubes, with test times which can be programmed via the menu, to identify other potential contaminants. For those users preferring to monitor oil concentration electronically the F6100 can be supplied with a separate electronic oil testing instrument, also available from Factair, a remote input ensures oil results are then monitored and data logged within the F6100.

If airflow rate monitoring is required there is a remote input available for a digital flowmeter (not supplied as standard with the instrument) to allow system flowrate to be recorded. This can then assist with the requirements to audit compressed-air systems for energy efficiency as described in ISO11011.

Each test, is stored within the F6100's memory and can be retrieved on screen and transferred via a removable SD card. Each instrument is provided with PC compatible software which provides an easy way to retain and print test results. The F6100 also includes volt free contacts which can be connected to a BMS system or a remote alarm to alert users when air quality fails to meet the required standard. An additional option available is a text SMS facility which will notify users when an oil Impactor test is due or air quality has failed to meet the test parameters.

The unit is designed to monitor low-pressure airline breathing systems but can be used with the F3002 high-pressure regulator assembly to monitor HP systems. Factair's quality accredited instrument workshop provides recalibration and servicing for the unit.



Model	Width	Height	Depth	Weight
F6100	210 mm	215 mm	75 mm	1.6 Kg

Accessories



8103530
Draeger Oil Impactor



F3002 High Pressure Regulator
Up to 300 bar
(Included as standard with the F6001).

Other Factair Breathing Air Quality Testing Instruments

F6000 Safe-Air Tester

Designed to provide sample point testing, rather than continuously on-line monitoring, the F6000 features the same key features as the F6100 but with an additional in built electronic flowmeter. Test results can be downloaded via a USB cable to a PC.

F4000 and F4000ED Safe-Air Testers

These instruments are designed to test low-pressure airline breathing systems utilising Draeger chemical reagent tubes and the oil impactor. They can also be used with the F3002 high-pressure regulator assembly to test HP cylinders. Both units have an inbuilt electronic sensor with digital readout measures oxygen content, whilst an electronic flowmeter allows airflows of up to 600 l/min to be verified. The F4000ED also features has an integral electronic dewpoint sensor.

F4001 and F4001ED High Pressure Safe Air Testers

Designed specifically for high pressure systems, the F4001 and F4001ED come complete with the F3002 regulator to reduce the pressure from a maximum of 300 bar. The instruments feature an odour check facility in the place of the digital flowmeter fitted in the F4000/F4000ED and again utilise Draeger chemical reagent tubes and the oil impactor. The F4001ED also features has an integral electronic dewpoint sensor.