

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, connection hose and coupling 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.



The F6100 is mains powered via an adaptor which is supplied with the instrument, 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.

The instrument has 2 no. 4-20mA inputs to display and record results from remote sensors (not supplied as standard with the instrument). Factair offers a separate sensor module which can be configured for a range of user defined contaminants. If airflow rate monitoring is required, the unit can be connected to a remote flowmeter and this can then assist with the requirements to audit compressed-air systems for energy efficiency as described in ISO11011.

For those users needing to monitor oil vapour concentrations electronically the F6100 can be supplied with the F6300 Oil Vapour Monitor which has a calibrated range down to $0.01 \text{ mg}/\text{m}^3$. The F6100 is easily configured, using the setup software provided, to display and datalog results from the F6300 as well as alert users whenever readings have exceeded predetermined limits.

Each test, is stored within the F6100's memory and can be retrieved on screen and transferred via a removable SD card. A software program is provided which provides a convenient way to analyse the datalogged results and identify trends and occasions when the breathing-air failed to meet the selected standard. The F6100 also includes a volt free contact which can be connected to a BMS system or a remote alarm to alert users when air quality fails to meet the required standard.

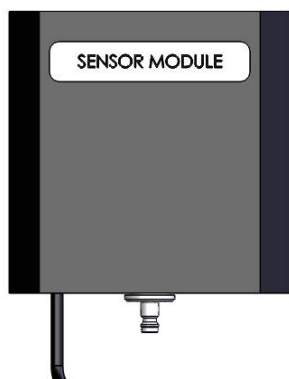
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The instrument is designed to monitor low-pressure airline breathing systems it can also be used with the F3002 high-pressure regulator assembly to monitor HP systems. Factair's quality accredited instrument workshop provides recalibration and servicing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

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

Accessories



Sensor Module – Providing additional gas detection for F6100 – see below



8103530
Draeger Oil Impactor



For connection to HP systems up to 300 bar
F3002 High Pressure Regulator

Other Factair Breathing Air Quality Testing Instruments

Sensor Module

Designed to work in conjunction with the F6100 the sensor module provides an additional gas sensor reading which is then displayed and datalogged on the F6100. Results from the module are displayed and recorded on the F6100 with alarm levels also set up through the PC software. The module is provided with air inlet connection and 4 to 20 mA connection cable to the F6100. Typical gas sensors fitted in the module include an electrochemical 0 to 10PPM H₂S sensor, other gas sensors available on request.

F6300 Oil Vapour Monitor

This oil vapour monitor is designed to be used either as a stand-alone instrument or in conjunction with the F6100 Safe-Air Monitor. Featuring a metal oxide sensor which is specially optimised to recognise long chain hydrocarbons this instrument has a calibrated detection range down to 0.01 mg/m³.

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.