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MicroVar 350

Breathing air quality control

Product description

The **MicroVar 350** has been specifically designed for monitoring the quality of breathing air on mobile respiratory protection units and construction sites in compliance with **NF EN 12021 standard**. Supplied in a wheeled case or 19" metal box, it enables continuous monitoring of CO, CO2, O2, humidity, and oil vapors.

The color touchscreen displays the various parameters as instantaneous values or like trend curves, and an SD card archives data in CSV format. Electrical outputs enable using a remote alarm system to signal drift or malfunction.

Numerous options complete the **MicroVar 350** air quality control case, such as an extra gas detection cell (NO2, SO2, NH3, HC, H2S, or HF), temperature sensors, or a ticket printer to adapt to the different problems of each application.

▶ MicroVar 350 assets:

- Continuous measurement of CO, CO2, O2, H2O and oil
- Low analysis rate (30 liters/hour)
- Continuous measurement display on the color screen
- Adjustable thresholds (adjusted by the decree of April 8, 2013)
- Sensor calibration from the display screen
- Continuous cell flow control
- Watchdog for all faults and alarms
- Measurement traceability on SD card
- Positive safety of all faults
- Electrical servo-control for alarm and central fault
- Alarms triggered in the event of power failure
- Sensors integrated into the interchangeable cell block
- Available in case, board, or 19" case
- Simple, user-friendly operation
- Numerous options (gas sensor, temperature sensor, ticket rinter, etc.)

Technical specifications

Dimensions: 450 x 380 x 500 mm / Weight : 12 kg
Material: ABS (suitcase version) / Metal (case version 19")
Protection rating: IP 66 (suitcase with cover closed)
Power supply: 230V ± 15% or battery
Power consumption: 1 A / 230V
Operating pressure: 2 to 10 bar (integrated pressure sensor)
Limited dew point: Down to -60°C
Flow rate: 30 L/H
Connection: 4 x 6 mm tube
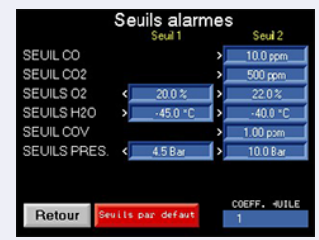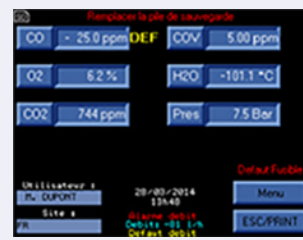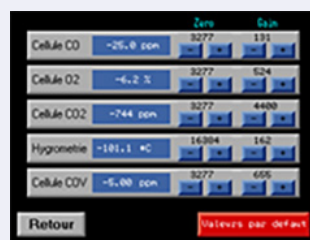**Operating temperature:** 5 to 45 °C / Humidity : 95%HR

▶ Measuring cells (EN12021 compliance) :

Sensors	CO	CO2	O2	Hygrometry	Oil Vapor
Technology	Electrochemical	Infrared	Electrochemical	Polymer	Ionization Lamp
Shelf life	> 2 years	> 5 years	> 12 months	> 3 months	> 6000h
Scale	100ppm	1000ppm	25% volume	+60 to -60°C	0 to 20ppm 4mg/m3
Accuracy	1%	1%	1%	2°C	5ppb
Linearity	1%	0%	1%	Linear	Linear
Response time (T90)	35s	10s	12s	180s	5s
Alarm	5ppm	500ppm	20%-22%	**-34°C**	0.5mg/m3