

# ▶ VAR 18

## Breathable air quality analyzer EN 12021 & AREVA standards compliant



### Product description

The **analyzer VAR 18** is designed to monitor the quality of breathing air distribution networks used in industry, nuclear power plants, and hospitals. It enables continuous monitoring of CO, CO<sub>2</sub>, O<sub>2</sub>, humidity, oil vapors, and dust particles, in compliance with **standard NF EN 12021**.

The 7" color touchscreen displays the various parameters as instantaneous values or trend curves, and an SD card archives data in CSV format. Electrical outputs enable the use of remote alarms to signal drift or malfunction.

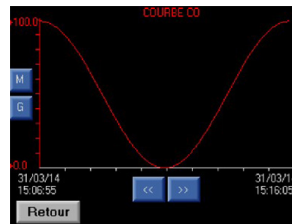
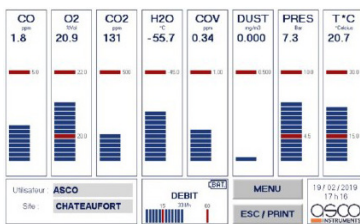
Ruggedly built, this device features pressure and flow regulators for precise measurements with no drift over time. The VAR 18 is available with a wide range of options, such as four additional gas detection cells (NO<sub>2</sub>, SO<sub>2</sub>, NH<sub>3</sub>, HC, H<sub>2</sub>S, or HF), temperature sensors, or a ticket printer to adapt to the different requirements of breathing air monitoring.

### Technical features

- Dimensions:** 450 x 380 x 500mm (Pelicase) / Weight: 14 kg
- Material:** ABS (suitcase version) / Metal (19" case version)
- Protection rating:** IP 66 (suitcase with closed cover)
- Power supply:** 90 to 240V 50 or 60 Hz
- Consumption:** 1A / 230V
- Operating temperature:** 10 bar maximum (without high-pressure option)
- Limited dew point:** down to -80°C
- Integrated data logger:** 2GB SD card
- Connection:** 4x6 mm tube
- Operating temperature:** 5 to 45°C / Humidity: 95% RH

### ▶ The VAR 18 assets

- Continuous measurement of CO, CO<sub>2</sub>, O<sub>2</sub>, H<sub>2</sub>O and oil to EN 12021 standard
- Continuous measurement display on the color screen
- Sensor calibration from the display screen
- Continuous cell flow control
- Measurement traceability on SD card
- 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 suitcase, board, or 19" case
- Numerous options available (up to 4 additional gas cells, dust analysis, temperature sensor, ticket printer, CAN, Ethernet or Profibus communication, etc.)



### ▶ Measuring cells (EN 12021 compliance)

Sensors	Standard EN 12021					Available options					
	CO	CO <sub>2</sub>	O <sub>2</sub>	Hygrometry	Oil vapour	Dust	Pressure	Temp.	NO	NO <sub>2</sub>	SO <sub>2</sub>
Technology	Electro-chemical	Infrared	Electro-chemical	Polymer	Lamp ionization	Diffraction	Piezo	PT100	Electro-chemical	Electro-chemical	Electro-chemical
Shelf life	> 2years	> 5 years	> 1 year	> 3 years	> 6000h	> 3 years			> 3 years	> 1 year	> 1 year
Scale	100ppm	1000ppm	25% volume	+60 to -60°C	0 to 20ppm 4mg/m <sup>3</sup>	0.001 to 5mg	30 bar	0 to 100°C	0 to 100ppm	0 to 20ppm	0 to 10ppm
Accuracy	1%	1%	1%	2°C	5ppb	± 10%	0.25%	1°C	2°C	5ppb	0,1ppm
Linearity	1%	0,5%	1%	Linear	Linear		1%		1%	1%	1%
Response time (T90)	35s	10s	12s	180s	5s	1 mn			35s	35s	35s
Alarm	5ppm	500ppm	20%-22%	-34°C	0.5mg/m <sup>3</sup>	*					

\* Particles dimensions : 0.3/0.5/1/5µm

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