ACG+

Compressed Breathing Air Monitor

The ACG+ is a unique compressed breathing air monitor designed to be used in a fixed installation near your air compressor or as an ideal portable solution for multi-point air monitoring.

The ACG+ offers the user peace of mind as it continually monitors Oxygen (O2), Carbon Dioxide (CO2), Carbon Monoxide (CO), dew point (H2O) and Volatile Organic Compounds (VOC) and also has a sample port to check for oil mist. Continual monitoring or periodic checking of these parameters aids the user in achieving compliance with breathing air standards and other local regulations, whilst ensuring those employees breathing the air are safeguarded against potentially fatal contamination issues. Housed in a robust case when used portably or in a purpose built housing when used in a fixed position, the ACG+ is simple to install, use and maintain and has a low cost of ownership.

The ACG+ offers 90 days of datalogging, easily retrieved with a USB connection and has audio/visual alarms and a common relay to connect to a beacon or to shut down the compressor should an alarm be triggered.

Employers have a duty of care to their employees to ensure the air they breathe is of the best quality possible and contaminants such as CO and VOCs are maintained at very low levels as they can cause serious health effects, particularly as the effects of such contaminants are increased at pressure. Even new, well-sited and well-maintained compressors can sometimes fail and contaminants can also enter into the breathing air through the intake. As this can theoretically happen at any time, continual monitoring is a safer and more accurate best practice than "spot checking" such as using colorimetric tube testing kits at intervals.

The ACG+ can be used with any breathing air compressor and simply needs to be connected after the compressor and before the end user (or cylinder) to ensure that contaminants can be detected before they reach the intended destination. The pressure needs to be regulated down to between 5 to 10 Bar. The ACG+ is most commonly situated in the compressor room but when used portably it can be used in most environments.

KEY FEATURES

- **Portable or fixed**
- **Mains, DC and up to 12 hour rechargable battery power options**
- **Proprietary dew point sensor lock out system for fast start up - ideal for multi point checking**
- **Proprietary humidifier option for continual use to prolong electrochemical sensor lives (CO & O2)**
- **East-connect purge system - helps ensure accurate readings in minutes**
- **Robust carry case**
- **Sensors now even easier to change out**
- **NiMH or Lithium battery options**
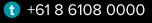- **90 days of datalogging easily retrieved via USB connection**

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SENSOR SPECIFICATIONS

Gas	Range	Accuracy	Technology
Oxygen	0 to 50%	$\pm(0.035\% \, O_2 + 1\%$ of reading $+ 0.15\%$ of reading/°C)	Analox MEC intelligent electrochemical oxygen sensor
Carbon Dioxide	0 to 1000ppm	$\pm(25ppm \, CO_2 + 1\%$ of reading $+ 1ppm \, CO2/°C)$	Analox 5S3 intelligent NDIR sensor
VOC	0 to 100ppm	$\pm(1ppm \, VOC + 5\%$ of reading $+ 0.25\%$ of reading/°C)	Analox MEC intelligent PID sensor
Carbon Monoxide	0 to 20ppm	$\pm(1ppm \, CO + 5\%$ of reading $+ 0.1ppm \, CO/°C + 0.5\%$ of reading/°C)	Analox MEC intelligent electrochemical sensor
Water Vapour	0 to 100mg/m^3	$\pm(0.15mg/m^3 \, H_2O + 20\%$ of reading)	Water vapour sensor using capacitive technology

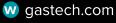## SPECIFICATIONS   Specifications subject to change without notice

Weigh	12 Kg	Environmental protection rating	IP54
Power	Input voltage: 24V DC		
Power consumption	24 W (max)	Outputs	1x Normally open relay contact
Optional Power Supply	Universal mains adaptor;		1x Normally closed relay contact
Input	95 to 250VAC, 50/60Hz		3x 24V DC switched outputs
Sensor Response Time	T90 < 120 secs	Certification and Approvals	BS EN 12021, DEF STAN 68-284,
	T90 < 15 mins (water vapour sensor)		Navsea, SS521-AK-1-010, US Navy
Flow Rate	5 LPM (max)		Dive Manual and BS 8478
Inlet Pressure	5 to 10 bar gauge	Part Number	72-8050-ACG
Operating temperature	-5°C to 50°C		
Storage temperature	-10°C to 60°C		
Humidity	0 to 99% RH (non condensing)		

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