

CompostTechnology Equipment

Windrow gas instrument

Flexibility through sensor variety

The gas measuring instrument is equipped with three electrochemical and two infrared sensors. The sensors are renowned for their fast response time, minor cross sensitivities, high level of accuracy and long lifetime.

They are automatically recognized by the instrument and pre-calibrated, so a change of the sensors can simply be done, which avoids additional service or maintenance. In this way, the instrument is the ideal partner for your process control.

Strong integrated pump

The built-in high-performance pump makes it possible to sample gas using a hose up to 45 m/150 ft. long. The operation of the pump is continuously monitored and the instrument will generate an alarm if the gas flow is affected.

Information at one glance

The software menu within the gas measuring instrument was designed in partnership with our customers making it simple and easy to use. By doing so, the use of different instrument configurations can be set for specific applications. The large graphic display and the auto-zoom function during alarms guarantee an easy recognition of the measurement values and symbols displayed for immediate reaction to the situation or hazards. All information is provided in plain text for easy understanding.

Data management

Optionally an integrated data logger can be installed that logs up to 3000 sets of values – that equals 100 hours when recording one set per minute. The data can then be transferred to a PC using an infrared interface and can be evaluated with the included software package.

Rugged and water-tight

In addition to the built-in dust and water protection, the gas measuring instrument can be submersed in up to 1 m or 3 ft. of water without damage. A specially designed rubber boot protects the instrument against damage even from a drop of 1.5 m or 5 ft.

Built for longevity

The completely new design of the rechargeable battery pack with intelligent charging management guarantees full functionality of the instrument over a period of up to 20 hours. The sensors used in the gas measuring instrument have a typical lifetime of over 5 years. If, over time, a sensor exchange is necessary, the modular approach of the instrument allows for this in a few simple steps.

Multiple alarms

Alarm conditions cannot be ignored because of the extremely loud multi-tone horn. The additional visual alarm can be seen 360°, ensuring that the user notices the warning. By generating an optional life-signal every six seconds, the gas measuring instrument confirms that it is functioning properly.





Sensors

Up to 5 sensors, 3 electrochemical and 2 catalytic bead or infrared sensors or a photo ionization detector (PID).

Alarm functions

360° visible and > 100 dB multi-tone audible alarm.



Robust enclosure

Rugged, water-tight with a standard integrated rubber boot.

Large display

Clearly structured, scratch resistant display with information in plain text.

Technical Data

Gas measuring instrument

Dimensions (B x H x T)	ca. 150 x 140 x 75 mm	
Weight	ca. 1.5 kg	
Ambient conditions	Temperature	-20 to 60 °C
	Pressure	700 to 1300 hPa
	Humidity	10 to 95 % r.H.
Battery life	NiMH (4.8 V / 6 Ah)	> 20 hours
Audible alarm	≥ 100 dB at 30 cm or 1 ft.	
Charging time	3.5 to 7 hours	

Available sensors

Sensor	Range	Accuracy	Longevity
IR CH ₄	0 to 100 % per volume	± 5 % of measured value	5 years
IR CO ₂	0 to 100 % per volume	± 5 % of measured value	5 years
O ₂	0 to 25 % per volume	± 1 % of measured value	5 years
NH ₃	0 to 200 ppm	± 5 % of measured value	5 years
H ₂ S	0 to 100 ppm	± 5 % of measured value	5 years

Accessories

Carrying strap, Charging module with power supply, Pump adapter

Options

Nylon protection cover, leather protection cover, internal data logger, software package with USB cable