

Multitec[®] 545



Multi-gas measuring device with infrared sensors and extended measuring range for hydrogen sulphide

With the **Multitec 545**, up to five gases can be measured simultaneously. The very high H₂S concentrations in wastewater treatment plants and palm oil factories, for example, place special demands on the measuring instrument. With its rugged design and wide H₂S measuring range, the **Multitec 545** is ideal for this use.

The use of infrared measuring techniques for methane and carbon dioxide eliminates the possibility of misleading results due to interaction with other gases. The large screen allows all parameters to be displayed simultaneously and quickly read off at a glance.

Measurement data is stored in log files and can easily be transferred to a PC via a USB connection.

Features

- Innovative operating concept with jog dial, menu navigation and function keys
- Large-format matrix display with backlight
- Selective infrared sensors for hydrocarbons and carbon dioxide
- EC sensor for hydrogen sulphide with wide measuring range (5000 ppm)
- Rapid charging in 3 hours
- Power supplied from four replaceable AA-size rechargeable or disposable batteries
- Explosion protection: ATEX 100a IIB, IIC when used with leather bag
- PC communication via USB port
- Supporting bracket for carrying and positioning

Measuring range and sensors

Gas type	Measuring range	Operating principle
Methane	0.0 – 100 % vol.	Infrared sensor
Carbon dioxide	0 – 100 % vol.	Infrared sensor
Hydrogen sulphide	0 – 5000 ppm	Electrochemical sensor
Oxygen	0.0 – 25 % vol.	Electrochemical sensor
Carbon monoxide	0 – 500 ppm	Electrochemical sensor

Technical data

Dimensions (W × D × H):	Approx. 148 × 57 × 205 mm Approx. 148 × 57 × 253 mm with supporting bracket
Weight:	Approx. 1000 g, depending on equipment
Protection rating:	IP54
Power supply:	4 rechargeable (NiMH) or disposable (alkaline) batteries
Operating time:	At least 6 h
Charging time for rechargeable batteries:	Approx. 3 h (complete charge), depending on capacity
Charging voltage:	12 V DC (max. 1 A)
Operating temperature:	-20 °C – +40 °C
Storage temperature:	-25 °C – +60 °C
Pressure:	800 – 1100 hPa
Permissible relative humidity:	5 – 90 % r.h., non-condensing
PC connection:	USB
Memory:	8 MB
Display:	Monochromatic graphic display, 320 × 240 pixels
Pump capacity:	Vacuum: > 250 mbar Volume flow: typically 50 l/h ± 20 l/h

Please contact us for a comprehensive quotation, including additional technical specifications and information on accessories.

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