



SERIES 500

The Series 500 monitor is a feature-rich portable monitor with the ability to accurately measure multiple target gases at different concentrations in indoor and outdoor applications. Built-in data-logging and a long-life, fast-charging lithium battery makes the Series 500 the ultimate choice for air quality professionals, consultants, and researchers.



TYPICAL APPLICATIONS

- Source and leak detection
- Health and safety monitoring
- Ozone process control
- Indoor air quality

SPECIFICATION

Measurement units	Gas: ppm or mg/m ³ Humidity: % Temperature °C or °F
Reading functions	Instant, minimum, maximum, average
Alarm features	Low alarm, high alarm, mute (configurable)
Display status indicators	Alarm, battery, data logging, sensor, standby, monitor and location ID
Audible alarm	Low and/or high alarm set points (with mute)
External signal functions	Low alarm, high alarm, control (150 mA max)
Sensor calibration features	Zero calibration, gain adjustment
Analog output	0-5 V
Digital interface	RS232 to USB
Data logging capacity	Up to 8,188 records (2,706 incl. temp/RH)
PC data logging	Software and data cable supplied
Clock function	Real time
Power supply	12 V DC (power adaptor/charger supplied 100-250 V AC)
Rechargeable battery	Lithium polymer 12 V DC 2700 mA/h (2 hr charge time / 8 hr run time)
Enclosure material and rating	PC and ABS; IP20 and NEMA 1 equivalent
Size (with sensor head)	195 x 122 x 54 mm; 75/8 x 4¾ x 21/8 in
Weight (with sensor head and battery)	< 460 g; < 16 oz
Environmental operating conditions	Temperature: -5°C to 45°C (23°F to 113°F); Humidity: 0 to 95% non-condensating
Temperature & Humidity sensor	Range -40°C to 124°C (-40°F to 255°F); Range 0 to 100% RH
Approvals	Part 15 of FCC Rules; EN 50082-1: 1997; EN 50081-1: 1992

BENEFITS

- Fits comfortably in the hand
- One monitor compatible with four different ranges of ozone sensor
- Data logged directly onto monitor base
- Changing sensors takes seconds and can be done anywhere
- Free PC software (Windows 7, 8, XP compatible)
- Remote sensor capability
- Long life lithium battery technology
- Zero and span calibrate in the field
- Connect direct to PC via USB
- Audible alarm functionality





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ORDERING INFORMATION

Included

Monitor base
LCD digital display
Lithium battery and charger
In-built datalogger
0-5 V output
Zero and span adjustment
Low and high alarm
Monitor to USB cable
PC software

Features

Built-in data-logging
Lithium battery as standard
PC software (Windows 7, 8, XP)
Connect to PC via USB cable
High and low alarms, control output
Link data to a specific location and monitor
Interchangeable gas sensor heads (30+ choices)
Temperature and RH sensor optional (plug-and-play)

Sensors heads available for

Ammonia (NH₃)
Carbon dioxide (CO₂)
Carbon monoxide (CO)
Hydrogen (H₂)
Hydrogen sulphide (H₂S)
Methane (CH₄)
Nitrogen dioxide (NO₂)
Non methane hydrocarbon (NMHC)
Ozone (O₃)
Sulphur dioxide (SO₂)
Volatile organic compounds (VOC)
Multi-sensor head: VOC / CO / CO₂ or CO / CO₂

Optional accessories

Remote sensor kit
Spare battery
Car adaptor
Wall bracket
Carry case

Elektravägen 53
SE-126 30 Hägersten, Sweden
+46 8 714 07 00
www.ozonetech.com