

Elektravägen 53 SE-126 30 Hägersten, Sweden +46 10 252 30 00 www.ozonetech.com

Series 300

The Series 300 monitor is a versatile monitor with the ability to accurately measure multiple target gases at different concentrations in indoor and outdoor applications. Able to control outputs and with built-in high and low alarms the Series 300 can function in both fixed and portable mode, offering users maximum flexibility.



Specification

Measurement units	Gas: ppm or mg/m 3 Humidity: % Temperature $^{\circ}$ C or F
Reading functions	Instant, minimum, maximum, average
Sensor head	Interchangeable, replaceable, refurbish-able
Display type	LCD
Alarm features	Low alarm, high alarm, mute (configurable)
Display status indicators	Alarm, battery, sensor, standby
External signal functions	Low alarm, high alarm, control (150 mA max)
Sensor calibration features	Zero calibration, span calibration
Analog output	0-5 V
Power supply	12 V DC (power adaptor/charger supplied 100-250 V AC)
Rechargeable battery	Lithium polymer 12 V DC 2,700 mA/h (2 h charge time / 8 h 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 4 ³ / ₄ 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









Ordering information

Included LCD digital display		
Included Eithium battery and charger Zero and span adjustment Low and high alarm 0-5 V output	Included	Monitor base
Tero and span adjustment Low and high alarm 0-5 V output External control outputs High and low alarms Interchangeable gas sensor heads Easy to use and maintain Power adaptor/charger included Remote sensor capability Temperature and RH sensor optional (plug and play) Ammonia (NH ₃) Carbon dioxide (CO ₂) Carbon monoxide (CO) Hydrogen (H ₂) Hydrogen sulphide (H ₂ S) Methane (CH ₄) Nitrogen dioxide (NO ₂) Non methane hydrocarbon (NMHC) Ozone (O ₃) Sulphur dioxide (SO ₂) Volatile organic compounds (VOC)		LCD digital display
Zero and span adjustment Low and high alarm 0-5 V output External control outputs High and low alarms Interchangeable gas sensor heads Easy to use and maintain Power adaptor/charger included Remote sensor capability Temperature and RH sensor optional (plug and play) Ammonia (NH ₃) Carbon dioxide (CO ₂) Carbon monoxide (CO) Hydrogen (H ₂) Hydrogen sulphide (H ₂ S) Methane (CH ₄) Sensors heads available for Nitrogen dioxide (NO ₂) Non methane hydrocarbon (NMHC) Ozone (O ₃) Sulphur dioxide (SO ₂) Volatile organic compounds (VOC)		Lithium battery and charger
0-5 V output External control outputs High and low alarms Interchangeable gas sensor heads Easy to use and maintain Power adaptor/charger included Remote sensor capability Temperature and RH sensor optional (plug and play) Ammonia (NH ₃) Carbon dioxide (CO ₂) Carbon monoxide (CO) Hydrogen (H ₂) Hydrogen sulphide (H ₂ S) Methane (CH ₄) Nitrogen dioxide (NO ₂) Non methane hydrocarbon (NMHC) Ozone (O ₃) Sulphur dioxide (SO ₂) Volatile organic compounds (VOC)		Zero and span adjustment
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$\begin{tabular}{lll} Temperature and RH sensor optional & & & & & & & & & & & & & & & & & & &$		Power adaptor/charger included
[plug and play] Ammonia [NH ₃] Carbon dioxide [CO ₂] Carbon monoxide [CO] Hydrogen [H ₂] Hydrogen sulphide (H ₂ S) Methane [CH ₄] Nitrogen dioxide [NO ₂] Non methane hydrocarbon [NMHC] Ozone [O ₃] Sulphur dioxide [SO ₂] Volatile organic compounds [VOC]		Remote sensor capability
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$		Temperature and RH sensor optional
$ \begin{array}{c} \text{Carbon dioxide } [\text{CO}_2] \\ \text{Carbon monoxide } [\text{CO}] \\ \text{Hydrogen } [\text{H}_2] \\ \text{Hydrogen sulphide } [\text{H}_2\text{S}] \\ \text{Methane } [\text{CH}_4] \\ \text{Nitrogen dioxide } [\text{NO}_2] \\ \text{Non methane hydrocarbon } [\text{NMHC}] \\ \text{Ozone } [\text{O}_3] \\ \text{Sulphur dioxide } [\text{SO}_2] \\ \text{Volatile organic compounds } [\text{VOC}] \\ \end{array} $		(plug and play)
$\begin{tabular}{lll} Carbon monoxide (CO) \\ Hydrogen (H_2) \\ Hydrogen sulphide (H_2S) \\ Methane (CH_4) \\ \\ Sensors heads available for \\ Nitrogen dioxide (NO_2) \\ Non methane hydrocarbon (NMHC) \\ Ozone (O_3) \\ Sulphur dioxide (SO_2) \\ Volatile organic compounds (VOC) \\ \\ \end{tabular}$		Ammonia (NH ₃)
$\begin{tabular}{lll} Hydrogen (H_2) \\ Hydrogen sulphide (H_2S) \\ Methane (CH_4) \\ Sensors heads available for \\ Nitrogen dioxide (NO_2) \\ Non methane hydrocarbon $(NMHC)$ \\ Ozone (O_3) \\ Sulphur dioxide (SO_2) \\ Volatile organic compounds (VOC) \\ \end{tabular}$	Sensors heads available for	Carbon dioxide (CO ₂)
$Hydrogen\ sulphide\ (H_2S)$ $Methane\ (CH_4)$ $Sensors\ heads\ available\ for$ $Nitrogen\ dioxide\ (NO_2)$ $Non\ methane\ hydrocarbon\ (NMHC)$ $Ozone\ (O_3)$ $Sulphur\ dioxide\ (SO_2)$ $Volatile\ organic\ compounds\ (VOC)$		Carbon monoxide (CO)
$\begin{tabular}{lll} Methane (CH_4) \\ Sensors heads available for \\ Nitrogen dioxide (NO_2) \\ Non methane hydrocarbon (NMHC) \\ Ozone (O_3) \\ Sulphur dioxide (SO_2) \\ Volatile organic compounds (VOC) \\ \end{tabular}$		Hydrogen (H ₂)
$\begin{tabular}{lll} Sensors heads available for & Nitrogen dioxide (NO_2) & Non methane hydrocarbon $(NMHC)$ & Ozone (O_3) & Sulphur dioxide (SO_2) & Volatile organic compounds (VOC) & $		Hydrogen sulphide (H₂S)
Non methane hydrocarbon (NMHC) Ozone (O ₃) Sulphur dioxide (SO ₂) Volatile organic compounds (VOC)		Methane (CH ₄)
Ozone (O ₃) Sulphur dioxide (SO ₂) Volatile organic compounds (VOC)		Nitrogen dioxide (NO ₂)
Sulphur dioxide (SO ₂) Volatile organic compounds (VOC)		Non methane hydrocarbon (NMHC)
Volatile organic compounds (VOC)		Ozone (O ₃)
3 1		Sulphur dioxide (SO ₂)
Multi-sensor head: VOC / CO / CO ₂ or		Volatile organic compounds (VOC)
		Multi-sensor head: VOC / CO / CO ₂ or
CO/CO_2		CO / CO ₂
Remote sensor kit	Optional accessories	Remote sensor kit
Spare battery		Spare battery
Optional accessories Car adaptor		Car adaptor
Wall bracket		Wall bracket
Carry case		Carry case

Benefits

- Very easy to use
- Fits comfortably in the hand
- Lithium battery allows a full eight hours in the field
- Audible alarm to notify ozone exceedences
- One monitor to measure 4 ranges of ozone
- Analogue output to control external devices e.g. ozone generator
- Changing sensors takes seconds and can be done anywhere
- Recalibrate sensor in the field or by returning to the factory
- Large display gives min., max. and average readings

Typical applications

- Ozone process control
- Personal exposure monitoring
- Source and leak detection
- Health and safety monitoring

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