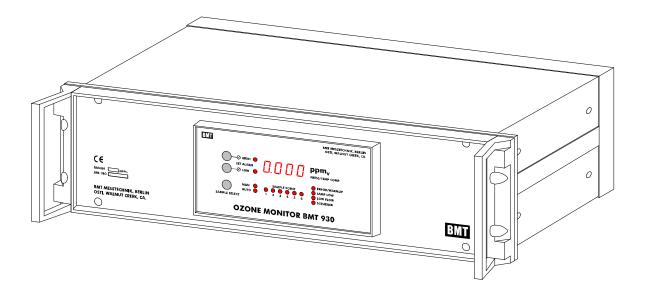
## **OZONE MONITOR BMT 930**

Low Concentration Ambient Ozone Monitor



## **FEATURES**

- Dual beam UV photometer
- Warranty 2 years
- Long-life mercury lamp
- High accuracy, error less than 1%
- Resolution 0.001 ppm<sub>v</sub>
- Pressure and temperature compensated
- Ranges from 1 to 250 ppm<sub>v</sub>
- 19" rack mount, or cabinet versions
- Traceable to international standard (NIST)
- 1, 3, 6 channel versions
- Two threshold alarm levels
- Cycle time 20 s per channel
- Two scrubbers (utility + reserve)
- Ozone generator for automatically testing the utility scrubber every 24 hours
- Reserve scrubber automatically replaces the utility scrubber when it is faulty
- Sample gas flow 1 l/min, auto controlled via an electronic flow meter

## APPLICATIONS

- Monitoring of ozone in ambient air
- TLV monitoring (Threshold Limit Value)
- Ambient monitoring in ozone plants
- Off-gas monitoring
- Monitoring in materials testing



The OZONE MONITOR BMT 930 is a state-of-the-art UV photometer for measuring and monitoring ozone content of the ambient air.

The instrument may be ordered with 1, 3, or 6 sample channels. Switching from channel to channel is automatic, or manual via push button.

The BMT 930 has two scrubbers (the scrubber is one of the most important elements of an ambient ozone monitor). And it has a built-in ozone generator for intermittent automatic testing the utility scrubber. When this scrubber fails in completely removing the ozone from the sample ozonated by the ozone generator, the instrument automatically switches from the utility to the reserve scrubber, and activates the warning signal SCRUBBER indicating a scrubber failure.

The sample gas flow rate is maintained constant by a pump which is automatically controlled by a built-in electronic flow meter.

The higly stable UV radiation source has a life expectancy of several years. When the lamp's performance drops significantly, the early warning signal LAMP LOW is activated indicating that the lamp has to be replaced during the next months.

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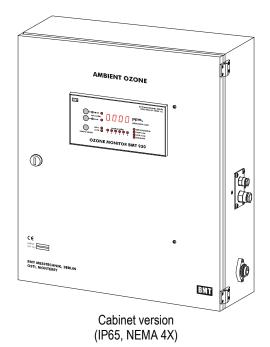


## SPECIFICATIONS

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Measurement principle	Dual-beam UV photometer (254 nm)
UV lamp	Low pressure mercury lamp, long life design, burnt-in for 300 h
Display	7-segment, bright red LED (13 mm), 4 digits
Concentration range	1 ppm <sub>v</sub>
Optional ranges	10, 100, 250 ppm <sub>v</sub>
Noise	±0.001 ppm <sub>v</sub>
Min. detectable Conc.	0.002 ppm <sub>v</sub>
Accuracy	±1%, traceable to NIST
Response time	20 s (0 - 95 %)
Temperature compensation	Standard
Pressure compensation	Standard
Flow rate	1 l/min, automatically controlled by an electronic flow meter
Sample ports	1, 3 or 6 (please specify), automatic and manual selection of sample port
Scrubber life	> 4 years (safety monitor operation)
Threshold alarms	Two, adjustable, with threshold alarm relays (Relay Box) included for each sample port
Error relay	Indicating any instrument failure, including
	Lamp low (one reserve lamp included, easy lamp replacement)
	Low flow
	Scrubber failure (tested for every 24 h, reserve scrubber takes over automatically)
	Warmup
Gas ports	Compresssion type for 1/4" PFA tubing
	Safety catalyst for off gas included
Signal outputs	Concentration 4-20 mA (isolated, active)
	Concentration 0-1 V, 0-10 V (isolated)
	Sample port identification by Relay Box
Control output	Lamp low (relay contact, 30 V, 1 A)
Digital interface	RS-232, showing concentration, threshold alarms, and error messages
	Hardware prepared for DeviceNet
Spare parts and	UV lamp
accessories kit, including	Scrubber
	Two filter holders per sample port, and 200 inserts
	Miscellaneous accessories
Warmup time	5 min. max., 2 min. typical
Power	Universal line voltage: 85 - 264 VAC, 25 VA, 50/60 Hz
	optional: 18-36 VDC, 25W
	CE-marked (EMC and safety)
Ambient temperature	0 - 45 °C (non-condensing)
Cabinet version	IP65, NEMA 4X
Dimensions (HxD)	132x300 mm (19" rack mount)
(WxHxD)	400x500x150 mm (wall mount BMT 930 C)
Weight	
° .	15 kg (wall mount BMT 930 C)



19" rack mount version



The OZONE MONITOR BMT 930 comes in a 19" rack mount enclosure 132 x 300 mm (H x D), or in a wall mount steel cabinet 400 x 500 x 150 (W x H x D). This cabinet is named BMT 930 C. The cabinet can be wall mounted using the four brackets provided at the rear (four mounting holes 6 mm ID, spaced 340 x 525 mm, W x H).

Dirt, organic compounds, and other contaminants in the ambient air can react with the ozone in the sample gas tubes. It is important that the sample gas tubes and the ozone monitor are kept clean inside. Therefore filters have to be provided at the inlet ports of the sample tubes. Filter holders and filter inserts are shipped with the instrument.

The filter inserts are of fine pure glass fibre felt to remove aerosol particles without affecting the ozone. This latter property may decrease with increasing dirt being retained by the filter. Therefore the filters should be replaced on a regular basis. Each user must determine the replacement interval optimum for the specific situation.

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