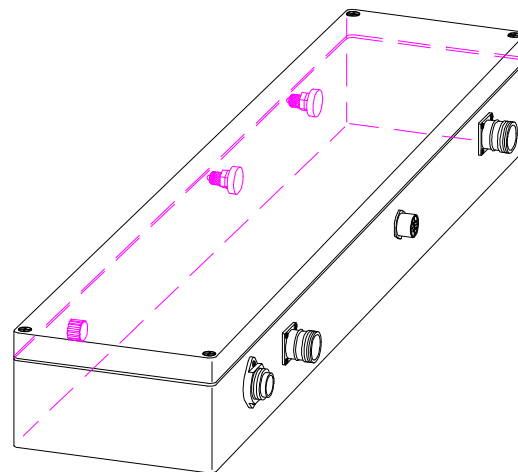


SPECIFICATIONS

measurement principle	dual-beam UV photometer (254 nm)
MTBF	instrument incl. UV lamp 65,000 h, excl. UV lamp 120,000 h
UV lamp	low pressure mercury lamp, long life design, burnt-in for 300 h
concentration ranges	0.75, 2, 5, 10 and 15 g/m ³ (ppm), selectable units g/m ³ and ppm
concentration error	0.5 % max.
repeatability error	0.2 % max.
response time	0.03 s (analog output), 0.3 s (display)
zero drift	0.2 % per day, after 10 minutes warm-up, non-cumulative
proof pressure	10 bar
ambient temperature	0 - 50°C (non-condensing)
materials in contact with the ozonated water	SS, quartz, PTFE, AFLAS
fluid ports	SS compression fittings for 4 x 6 mm (5/32" x 1/4") PTFE tubing
recommended flow rate	0.05 to 0.1 l/min typical
pressure drop without valve	approx. 10 mbar at 0.1 l/min
signal outputs	concentration 4 - 20 mA (isolated, active) concentration 0 - 10 V (isolated)
concentration alarms	High Alarm, Low Alarm, latching, not latching
control input	set to zero (24 V, 18 mA, isolated)
control outputs	relay contacts, 28 V, 0.5 A, isolated: Lamp Low Cuvette Dirty High Alarm Low Alarm Purge Control
error handling	Error Relay: 30 V, 1 A, summarizing instrument failures. Warnings and errors: Lamp Low Warning, Lamp Low Error, Lamp Off Error, Cuvette Dirty Warning, Cuvette Dirty Error, Overrange, Overpressure
serial interface	RS-232, bidirectional, 2400 - 38400 Baud
automatic zeroing	possible via the purge contact
software	BMT 964 Link, instrument configuration and readout of Event and Error Logs on a Windows PC
power	wide range input: 85 - 264 VAC, 15 VA optional: 12 - 36 VDC, 15 W
dimensions (W x H x D)	360 x 160 x 82 (W x H x D)
weight	4 kg



dimensional outline

The OZONE-IN-CLEAN-WATER SENSOR BMT 964 AQ-LC comes in a splash proof aluminium enclosure (IP 65, NEMA 4X) 360 x 160 x 82 mm (W x H x D) with sea water resistant coating (RAL 5009, azure), and weighs about 4 kg. Four mounting brackets are provided for installing the SENSOR where it is needed. All electric connectors are water proof.

An optional internal throttle valve (flow resistance) can be installed behind the measuring cuvette to control the flow rate through the OZONE-IN-CLEAN-WATER SENSOR BMT 964 AQ-LC.

As long as the cuvette of the SENSOR remains clean, zeroing of the instrument is not necessary for weeks, or even for months. But for safety, zero reading should be checked on a regular basis.

A Remote Display is available as an option for monitoring the measured ozone concentration and for manual control.

In the OZONE-IN-CLEAN-WATER SENSOR BMT 964 AQ-LC the isolated signal outputs are tied to protective ground by a resistor of 10 MegOhms.

Additional BMT Products (for details, refer to the appropriate data sheets):

- BMT 964 AQ for ultra pure DI water
- BMT 964 AQ-INLINE with 3/4" Flaretek fittings
- BMT 964 (standard version) for ozone measurement in the gas phase
- BMT 930 Ozone Monitor for TLV monitoring in ambient air (1, 3 & 6 channels)
- BMT 802X (4 g/h) and BMT 803 (8 g/h) Ozone Generators
- Broad spectrum of field-proven accessories for ozone measurement

Rev. Aug 02