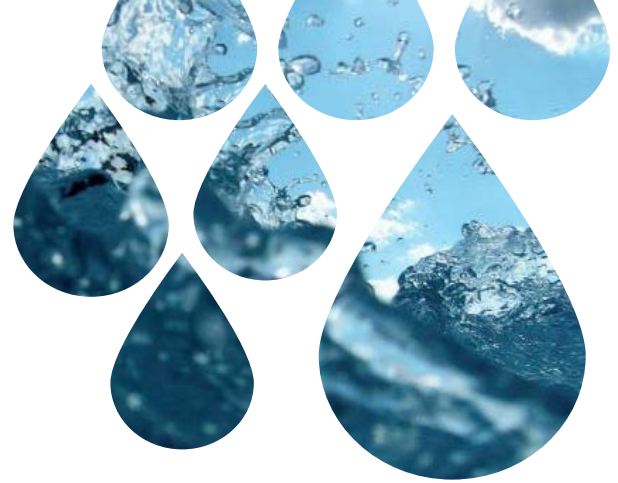


Call [800.959.0299](tel:800.959.0299) to speak with a sales representative or visit us on the web at www.analyticaltechnology.com



Dissolved Ozone Transmitter



Model Q45H/64

ATI's Dissolved Ozone Transmitter is the ideal choice for on-line monitoring and control of ozonation systems. Capable of measuring DO₃ concentrations as low as 0-200 ppb full scale, the system provides the sensitivity needed for demanding applications such as pharmaceutical grade water or semiconductor wash water. And with the standard 0-2 ppm range, the monitor is ideally suited to water bottling systems or municipal water treatment. Even high range applications requiring 0-20 or 0-200 ppm can be easily accommodated.

Utilizing a highly selective polarographic membraned sensor, dissolved ozone can be monitored interference-free, with little maintenance. There are no moving parts and what little maintenance is required can be done in just a few minutes. Installation is simple and you can be up and running in a few hours.

Available in loop-powered or battery operated portable versions, the Q45H/64 is well suited for almost any DO₃ measurement requirement.

Applications

Egg Washing Systems
Pharmaceutical Water
Semiconductor Wash Water
Ground Water Remediation

Bottled Water Systems
Food Wash Water
Aquaculture

Features

- Low maintenance membraned sensor
- Loop-powered or battery operation
- External 5-17 VDC version for solar power applications
- Interference-free measurement
- Measurement from 0-200 ppb to 0-200 ppm
- Constant-head flowcell simplifies operation
- Sealed flowcell option for recirculation systems
- Large, easy-to-read LCD display
- Clear, menu-driven user interface
- NEMA 4X (IP-66) enclosure
- Wall or pipe mounting bracket standard
- Built-in PID controller

Sensor & Flowcell Options



Sealed Flowcell



Constant Head Flowcell



Submersible Sensor

Model Q45H/64 SPECIFICATIONS

ELECTRONIC TRANSMITTER

| | |
|----------------------------|--|
| Display Range | 0-200 ppb; 2,000, 0-20.00, 0-200.0 ppm or mg/l |
| Accuracy | ±0.5% of selected range or 0.02 ppm |
| Repeatability | 0.3% of selected range or 0.01 ppm |
| Sensitivity | 0.05% of selected range |
| Linearity | 0.1% of selected range |
| Temperature Drift | 0.1% of span/°C |
| Sensor Type | 2E Amperometric (Polarographic) membraned sensor |
| Temperature Input | Pt100 in sensor for temperature compensation |
| Power | 2-Wire unit: 17-30 VDC, 25 mA maximum Battery unit: Two AA alkaline batteries External DC: 5-17 VDC, 10 mA maximum |
| Analog Outputs | 2-Wire unit: Single 4-20 mA DC, 450 ohms maximum Battery unit: Two 0-2.5 VDC, 50K ohms minimum External DC: Two 0-2.5 VDC, 50K ohms minimum |
| Output Isolation | 600 V Galvanic isolation |
| Enclosure | NEMA 4X (IP-66) Polycarbonate, V-0 flammability |
| Mounting Options | Wall or pipe mounting bracket supplied |
| Conduit Entries | Two PG-9 cord grips, 0.16-0.31" diameter cable |
| Ambient Temperature | Operating: -40° to + 60°C Storage: -40° to + 70°C |
| Ambient Humidity | 0-95%, Non-condensing |
| Size | 4.4"H x 4.4"W x 3.5"D (111 x 111 x 90 mm) |
| Weight | 2-Wire or External DC unit: 1 lb (0.45 Kg) Battery unit: 2 lbs (0.9 Kg) |
| Certifications | CE marked to BS EN 61326-1:2006 Standard UL and CSA General Purpose |

SENSOR & FLOWCELL SPECIFICATIONS

| | |
|---------------------------|---|
| Ozone Sensor | Membrane-covered amperometric (Polarographic) |
| Optional pH Sensor | pH sensor, with or without preamplifier |
| Materials | PVC & 316 stainless steel |
| Response Time | 90% in 60 seconds |
| Temperature Limits | 0-50°C |
| Pressure Limit | 0-50 psig |
| Sensor Cable | 25 ft. (7.5 m) standard |
| Sensor Flowcell | Clear acrylic constant-head overflow or sealed acrylic flowcell |
| Sample Flow rate | 7-15 GPH (0.5-1.0 LPM) |

ORDERING INFORMATION

Model Q45H/64-A-B-C Dissolved Ozone Transmitter

Suffix A - Power

- 1 - 24 VDC, 2-wire (single output only)
- 4 - Battery operated with two 0-2.5 VDC outputs
- 5 - External 5-17 VDC with two 0-2.5 VDC outputs

Suffix B - Sensor Style

- 1 - Sensor with constant head flowcell and 25' cable
- 2 - Submersible sensor with 25' cable
- 3 - Sensor with sealed low-volume flowcell
- 4 - Sensor with 1-1/2" Flow "T"
- 5 - Sensor with sealed flowcell
- 6 - Flow sensor only, no flowcell (use with extreme caution)

Suffix C - pH Sensor Input

- 1 - None
- 2 - Q22 pH sensor with battery preamp, 25 ft. cable
- 3 - Standard pH sensor with 25 ft. cable & adapter for overflow cell
- 4 - Standard pH sensor with 25 ft. cable & sealed flowcell
- 5 - Standard pH sensor with 25 ft. cable (for submersible applications)

ACCESSORIES

- 07-0100** Universal junction box, NEMA 4X
- 31-0001** 5-c sensor interconnect cable, max. 100 ft. (O₃ only)
- 31-0038** 7-c sensor interconnect cable, max. 100 ft. (O₃ / pH systems)
- 00-0628** Mounting bracket kit for submersible sensor
- 00-0570** Ozone polarizer, flow cell style
- 00-0571** Ozone polarizer, submersible style
- 00-0930** Monitor pipe mounting bracket kit
- 47-0005** 2" U-bolt, 304SS
- 55-0057** Fixed flow regulator, 400 cc/min., 1/4" inlet & outlet, viton

NOTES:

- 1 - All systems are supplied with one package of membranes, one 120 cc bottle of electrolyte, and one spare kit containing 3 each of all o-rings and special screws.
- 2 - Flowcell for O₃ systems should be kept within 25 ft. of monitor.
- 3 - Pipe mount requires two 2" U-bolts (47-0005).

B / Q45H64 / R-1 (5/2014)

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