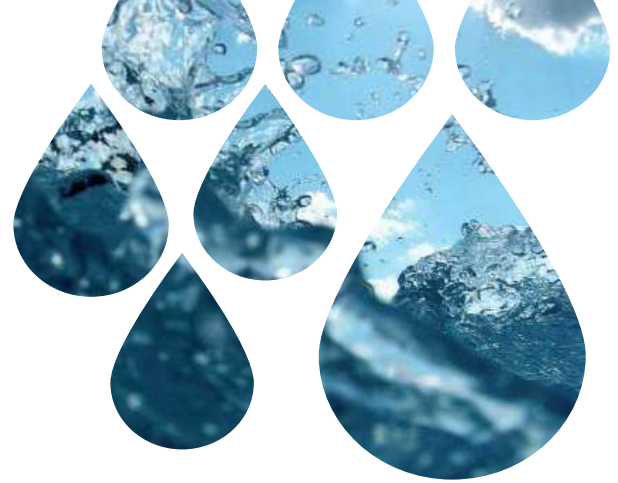


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Hydrogen Peroxide Transmitter



Model Q45/84

ATI's Hydrogen Peroxide (H_2O_2) Transmitter is an extremely strong oxidizer which is widely used in bleaching applications in the paper industry and is sometimes added to water systems for the purpose of disinfection. In addition, it is used in wastewater collection systems to remove Hydrogen Sulfide that destroys concrete pipe and manhole structures. Peroxide applications in aqueous systems, like most chemical treatment processes, function most efficiently with accurate measurement and control.

In order to facilitate the control of aqueous Hydrogen Peroxide feed systems, ATI has developed an on-line monitor capable of providing real-time measurement of low levels of dissolved H_2O_2 in solution. The Dissolved Hydrogen Peroxide Monitor uses a direct sensing polarographic probe mounted in a flowcell to measure H_2O_2 in a flowing water stream. A Peroxide permeable diffusion membrane isolates the sensing electrodes from the measured sample, providing long-term stability without electrode fouling problems. The measurement is selective for Peroxide and does not respond to most other chemicals in solution.

Applications

Food Wash Water	Iron Oxidation Systems
Free Chlorine Removal	Bleaching Systems
Cooling Towers	Potable Water Treatment
Odor Scrubbers	

Features

- Low maintenance membraned sensor
- Loop-powered or battery-operated
- External 5-17 VDC version for solar power applications
- Interference-free measurement
- Measurement from 0-2 ppm to 0-200 ppm or mg/L
- 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

Model Q45/84 SPECIFICATIONS

ELECTRONIC TRANSMITTER

Display Range	0-2.000, 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	0.5% of selected range
Linearity	0.1% of selected range
Temperature Drift	0.01% of span/°C
Sensor Type	3E 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

Peroxide Sensor	Membrane-covered Amperometric (Polarographic)
Materials	PVC
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 Q45/84-A-B Hydrogen Peroxide 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 - Sensor with sealed flowcell

ACCESSORIES

- 07-0100** Universal junction box, NEMA 4X
- 31-0038** Sensor interconnect cable, maximum 100 ft.
- 00-0572** Sensor Polarizer, flow cell style
- 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 parts kit containing 3 each of all o-rings and special screws.
- 2 - Flowcell for H₂O₂ system should be kept within 25 feet of monitor.
- 3 - Pipe mount requires two 2" U-bolts (47-0005).

Short Term H₂O₂ Data Logger

Model PQ45: Portable H₂O₂ Monitor

The perfect solution for temporary monitoring from a few days to a few weeks!



PQ45 Portable H₂O₂ Data Logger



Visit Us on the Web: www.analyticaltechnology.com

B / Q45/85 / R-1 (5/2014)

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