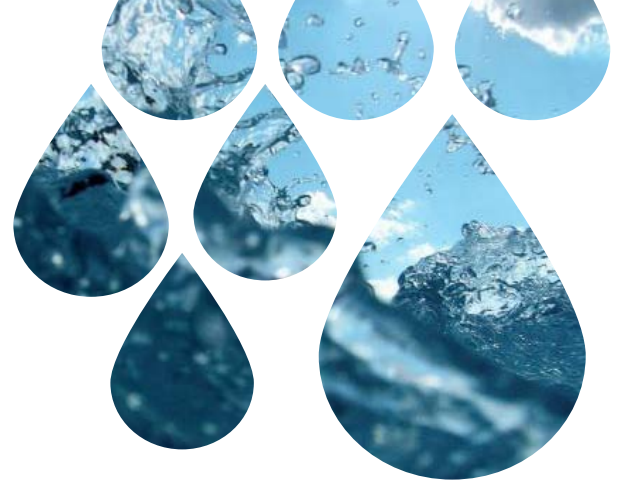


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# Peracetic Acid Transmitter



## Model Q45/85

Peracetic Acid (PAA) is an extremely strong oxidizer that is widely used in the food industry for disinfection of piping systems and processing equipment. It is also used for spray washing of food products, and for disinfection of cooling water systems. As a disinfecting agent, PAA is often preferred because it produces no harmful disinfection by products.

As with any disinfection system, maintaining proper residual values is the key to effective pathogen control. To facilitate reliable chemical feed control, ATI has developed an on-line monitor capable of providing real time measurement of low levels of PAA in solution. The Q45/85 Peracetic Acid Transmitter uses a direct sensing polarographic probe mounted in a flowcell to measure PAA residuals in a flowing water stream. A permeable diffusion membrane isolates the sensing electrodes from the measured sample, providing long-term stability without electrode fouling problems. The measurement is selective for PAA, and is not affected by changes in hydrogen peroxide in solution.

## Applications

<b>Egg Washing Systems</b>	<b>Wastewater Treatment</b>
<b>Ground Water Decontamination</b>	<b>Bleaching Systems</b>
<b>Oil &amp; Gas Recovery Systems</b>	<b>Cooling Towers Cleaning</b>

## Features

- Low maintenance membraned sensor
- Loop-powered or battery-operated
- External 5-17 VDC version for solar power applications
- Interference-free measurement
- Measurement from 0-20 ppm to 0-2000 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



Submersible Sensor

# Model Q45/85 SPECIFICATIONS

## ELECTRONIC TRANSMITTER

<b>Display Range</b>	0-20.00, 0-200.0, 0-2000 ppm or mg/l
<b>Accuracy</b>	0.5% of selected range or 0.02 ppm
<b>Repeatability</b>	0.3% of selected range or 0.01 ppm
<b>Sensitivity</b>	0.05% of selected range
<b>Linearity</b>	0.1% of selected range
<b>Temperature Drift</b>	0.1% of span/°C
<b>Sensor Type</b>	2E Amperometric (Polarographic) membraned sensor
<b>Temperature Input</b>	Pt100 in sensor for temperature compensation
<b>Power</b>	<b>2-Wire unit:</b> 17-30 VDC, 25 mA maximum <b>Battery unit:</b> Two AA Alkaline batteries <b>External DC:</b> 5-17 VDC, 10 mA maximum
<b>Analog Outputs</b>	<b>2-Wire unit:</b> Single 4-20 mA DC, 450 ohms maximum <b>Battery unit:</b> Two 0-2.5 VDC, 50K ohms minimum <b>External DC:</b> Two 0-2.5 VDC, 50K ohms minimum
<b>Output Isolation</b>	600 V Galvanic isolation
<b>Enclosure</b>	NEMA 4X (IP-66) Polycarbonate, V-0 flammability
<b>Mounting Options</b>	Wall or pipe mounting bracket supplied
<b>Conduit Entries</b>	Two PG-9 cord grips, 0.16-0.31" diameter cable
<b>Ambient Temperature</b>	Operating: -40° to + 60°C Storage: -40° to + 70°C
<b>Ambient Humidity</b>	0-95%, Non-condensing
<b>Size</b>	4.4"H x 4.4"W x 3.5"D (111 x 111 x 90 mm)
<b>Weight</b>	<b>2-Wire or External DC unit:</b> 1 lb (0.45 Kg) <b>Battery unit:</b> 2 lbs (0.9 Kg)
<b>Certifications</b>	CE marked to BS EN 61326-1:2006 Standard UL and CSA General Purpose

## SENSOR & FLOWCELL SPECIFICATIONS

<b>PAA Sensor</b>	Membrane-covered amperometric (Polarographic)
<b>Materials</b>	PVC & 316 stainless steel
<b>Response Time</b>	90% in 60 seconds
<b>Temperature Limits</b>	0-50°C
<b>Pressure Limit</b>	0-50 psig
<b>Sensor Cable</b>	25 feet (7.5 m) standard
<b>Sensor Flowcell</b>	Clear acrylic constant-head overflow or sealed acrylic flowcell
<b>Sample Flow rate</b>	7-15 GPH (0.5-1.0 LPM)

## ORDERING INFORMATION

Model Q45/85-A-B Peracetic Acid 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
- 3 - Submersible sensor with 25' cable

## 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 systems should be kept within 25 feet of monitor.
- 3 - For 1/2 DIN panel mount, select option 07-0201.
- 4 - Pipe mount requires two 2" U-bolts (47-0005).

## Short Term PAA Data Logger

Model PQ45: Portable PAA Monitor

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



PQ45 Portable PAA Data Logger



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