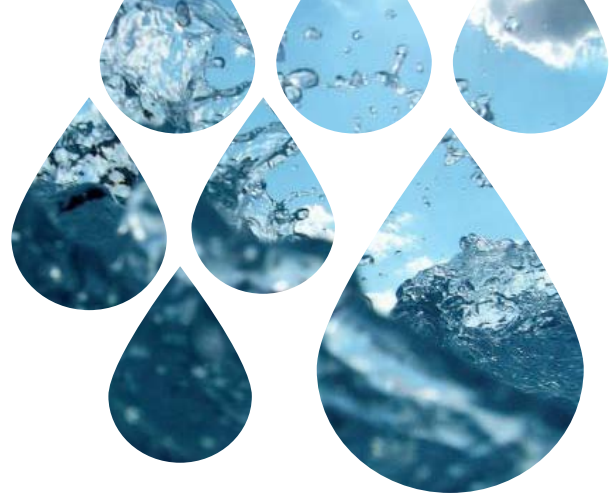


Call **800.959.0299** to speak with a sales representative or visit us on the web at www.analyticaltechnology.com



pH/ORP Transmitter



Model Q45P/R

Measurement and control of pH is important in a wide variety of industries. Water and wastewater, boiler feed water, food processing wash water, chemical plant make-up water and many other aqueous systems require reliable pH monitoring.

The pH Transmitter provides the combination of durability, accuracy, and versatility required for virtually any pH monitoring application.

The ORP Transmitter provides the same reliable monitoring system for Oxidation-Reduction Potential (ORP) applications.

Q45 pH and ORP Transmitters use “differential” type sensors designed for long life in the most demanding applications. Differential sensors are well suited for applications that quickly poison conventional pH or ORP sensors, and can be easily serviced by operators. A variety of sensor styles are available to meet almost any application.

Applications

Cooling Towers
Potable Water Treatment
Wastewater Treatment
Chemical Process Control

Plating Baths
Metals Precipitation
Streams & Rivers
Boiler Feedwater

Features

- Differential sensors for long life
- Loop-powered or battery-operated
- External 5-17 VDC version for solar power applications
- Submersion, In-line, or sanitary-style sensors
- Special High Purity sensor option
- Adapts to Conventional pH or ORP sensors
- 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 Options



Differential Sensors



Conventional Sensor

Model Q45P/R SPECIFICATIONS

ELECTRONIC TRANSMITTER

Display Range	pH: 0.00 - 14.00 ORP: -1000 to +2000 mv
Accuracy	0.02 pH or 2 mv
Repeatability	0.01 pH or 1 mv
Sensitivity	0.01 pH or 1 mv
Linearity	0.1% of scale
Temperature Drift	0.1% of span/°C
Sensor Type	pH: Series Q25P Differential or Conventional types ORP: Series Q25R Differential or Conventional types
Temperature Input	Pt1000 or Pt100 RTD 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 OPTIONS

- 07-0100** Sensor junction box, NEMA 4X
- 31-0057** Sensor interconnect cable
- 03-0029** Cable assembly with connector, 25 ft.
- 00-0628** Submersion mounting hardware for standard sensor
- 07-0209** 1" NPT Tee, CPVC
- 07-0221** 1-1/2" NPT Union/Tee mount, CPVC, (requires 44-0219 tee)
- 07-0210** 2" NPT Union/Tee mount, CPVC, (requires 44-0233 tee)
- 00-1391** External preamp for Conventional sensors, NEMA 4X
- 00-1527** Sealed flowcell for 63-0013 or 63-0008 sensors
- 63-0017** 3/4" Flow Tee adapter for 63-0008 or 63-0013 sensors
- 63-0021** 1" Flow Tee adapter for 63-0008 or 63-0013 sensors
- 47-0005** 2" U-bolt, 304SS
- 05-0068** Panel mount bracket kit

ORDERING INFORMATION

Model Q45 - A - B pH/ORP Transmitter

Suffix A - Measurement Type

P - pH
R - ORP

Suffix B - 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

NOTES:

1 - Pipe mount requires two 2" U-bolts (47-0005).

Model Q25 - A - B - C Differential Sensor

Suffix A - Electrode Type

P1 - pH: industrial glass
P2 - pH: municipal glass
P3 - pH: antimony metal (HF applications only)
R1 - ORP: platinum metal
R2 - ORP: gold metal

Suffix B - Sensor Type

1 - 1" NPT convertible-style PEEK
2 - Insertion-style, 316SS
3 - 1-1/2" sanitary-style, 316SS
4 - 2" sanitary-style, 316SS
5 - Auto-clean sensor, with nozzle, Noryl (submersion only)
6 - Convertible-Style, PEEK, with connector (See Note 1 & 2)

Suffix C - Sensor Cable Length

1 - 15 ft. (4.6 m)
2 - 30 ft. (9.2 m) (standard with Auto-Clean sensor)
3 - 60 ft. (18.4 m)
9 - Special

NOTES:

1 - Sensor with integral connector is not waterproof. Used for indoor applications only.
2 - Suffix B, Option 6 requires 03-0029 cable

CONVENTIONAL pH/ORP SENSORS

- 63-0013** Flow type pH sensor, 25 ft. cable, Pt100, Twist-lock
- 63-0009** Submersible pH sensor, 25 ft. cable, Pt100
- 63-0008** Flow type Pt. ORP sensor, 25 ft. cable, No temp., Twist-lock
- 63-0023** Submersible Pt. ORP sensor, 25 ft. cable, No temp.
- 07-0092** Q25 Style combination sensor w/connector (req. 03-0029 cable)
- 07-0149** Q25 Style combination sensor, 30 ft. cable



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