

Series A15/72

pH/ORP Monitor



Monitor



Sensor



Modular Sensor

The model A15/72 is a microprocessor based pH/ORP monitor providing all the features needed for measurement applications in water, wastewater, and process industries. Housed in a compact 1/4 DIN panel mount enclosure, the system provides digital display of pH/ORP values, an isolated analog output, and a bracket alarm to indicate either high or low pH conditions. Whatever the application, the A15 series of pH and ORP monitors can provide years of reliable, trouble free operation.

A15 systems are available with either standard pH sensor assemblies or a special modular assembly containing a preamplifier in the sensor head. The preamplifier allows the sensor to be remote from the monitor by up to 500 feet, while the standard sensor is limited to 25 feet of cable. Flow "T" assemblies are available for in-line applications, and a variety of special sensor assemblies are available where required.

Features

- **Alphanumeric LCD:** Provides pH or ORP display, temperature display, alarm status indication, and all configuration information.
- **Two Control Relays:** Relays are programmable for setpoint, deadband, and time delay. Relays offer pulse frequency and pulse width modulation control modes in addition to simple on/off control for direct chemical feed pump modulation.
- **Isolated Output:** Programmable 4-20 mA output span from 1 to 14 pH units full scale. Output may also be inverted if required.
- **Multipurpose Alarm Relay:** Provides alarm output if pH or ORP values go outside a definable band, and may also be programmed to alarm if control functions do not hold designated values for a specific time period.
- **Automatic Buffer Recognition:** Monitor recognizes calibration buffer values automatically and makes calibration a snap.
- **Dual Input Option:** A15 monitors can be supplied with one pH and one ORP sensor input, providing both measurements in one compact package. Separate isolated 4-20 mA outputs are provided for each input.

Specifications

ELECTRONICS

Inputs:	Single sensor standard, dual pH and ORP optional
Range:	0-14.00 pH, -1000 to +1000 mv
Electrode Type:	Glass or antimony for pH, platinum or gold for ORP
Repeatability:	±0.02 pH
Linearity:	0.1% of F.S.
Display:	16 character alphanumeric backlit LCD
Temp. Compensation:	Automatic from -10° to 110°C with 100 ohm Pt. RTD
Control Relays:	Two SPDT relays, 5A @ 220 VAC resistive Programmable deadband and time delay
Control Mode:	On/Off, pulse width modulation, pulse frequency modulation
Alarm Relay:	Independent SPDT relay, 5A @ 220 VAC resistive Programmable for actuation on high/low values or on control system failure
Analog Output:	Isolated 4-20 mA, 600 ohm maximum load Programmable output span Output may be inverted
Optional Output:	Isolated 4-20 mA output for temperature or second sensor
Operating Conditions:	-25° to 50°C, 0% to 95% R.H. non-condensing
Power:	110/220 VAC ±10%, 50/60 Hz.
Enclosure:	Panel mount standard, NEMA 4X wall mount optional

SENSORS

Standard Submersion:	Double junction electrode with integral RTD, 25 ft. cable
Optional Submersion:	Two part assembly with top holder and screw-in sensing module Integral preamplifier in sensor head (cable lengths to 500 ft.)
Standard Flow Sensor:	Double junction electrode with RTD, 1" pipe "T", 25 ft. cable
ORP Sensor:	Platinum electrode standard, gold optional
Response Time:	90% in 10 seconds
Temp. Sensor:	100 ohm platinum RTD integral to sensor
Temp. Limits:	-10° to +80°C
Pressure Limits:	0-100 PSIG
Materials:	CPVC for standard sensor, Noryl for two part sensor

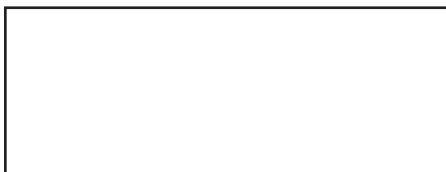
Ordering Information

Model A15/BB-CC-D-E Monitor

Suffix BB - Parameter	Suffix E - Sensor Type
72 - pH	1 - pH Sensor with 25' cable
75 - ORP	2 - Modular pH Sensor with 25' cable, preamp in sensor head
Suffix CC - Parameter	3 - pH Sensor with 25' cable and 1" flow "T"
00 - None	4 - ORP Sensor with 25' cable
75 - ORP (or dual output)	5 - Modular ORP Sensor with 25' cable, preamp in sensor head
Suffix D - Enclosure	6 - ORP Sensor with 25' cable and 1" flow "T"
1 - Panel Mount	7 - One pH and one ORP Sensor, each with 25' cable
2 - NEMA 4X Wall Mount	

Note: All systems are supplied with one pack of pH 4 Buffer and one pack of pH 7 Buffer for calibration. Modular sensors supplied with O-Ring Kit.

Represented By:

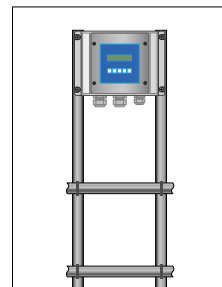


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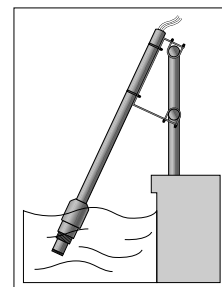
NEMA 4X Wall Mount



Monitor Mounting



Sensor Mounting



Options

00-0628	Mounting bracket kit for submersible sensor
00-0139	Monitor Pipe Mounting Bracket Kit
31-0038	7 conductor shielded interconnect cable for preamp sensor
00-0726	Junction box for sensor with preamp
55-0016	pH 4 Buffer, 5 packs (each pack makes 500 cc)
55-0017	pH 7 Buffer, 5 packs (each pack makes 500 cc)
55-0018	pH 10 Buffer, 5 packs (each pack makes 500 cc)

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