

720 Series II

pH & ORP

MONITOR / CONTROLLERS

CE



APPLICATIONS:

- Reverse Osmosis
- Process Control
- Seawater Desalination
- Waste Treatment
- Food Processing
- Plating
- Power Plants
- Laboratories
- Printing
- Boilers
- Cooling Towers
- Potable Water
- Waste Water Treatment
- Swimming Pools & Spas
- Paper & Pulp
- Bleach Manufacturing
- Reduction of Chromate Waste
- Environmental

FEATURES:

- pH 0-14 or ORP ± 2000 mV
- Choice of analog meter or 3 1/2 digit LCD.
- Advanced "Isolated" circuitry
- Automatic temperature compensation to 25°C (NERNST equation)
- Isolated 0-10 VDC recorder output - standard
- IP64/NEMA 3 splash & corrosion-proof enclosure
- Built-in electronic calibration
- Single set point/alarm standard
- Adjustable set point hysteresis
- Solid State Output

- 10 amp relay operates on choice of increasing or decreasing set point
- Push-to-test set point check
- Internal set point discourages unauthorized adjustment
- Solid State 24 VDC Output
- Selectable 115/230 VAC
- CE approved
- Unique, easily installed sensors
- Heavy duty "F" model sensors may be installed in ANY direction including inverted.

Options include-

- Second Alarm/control Module
- 4-20 mA Isolated Output
- Piezo Electric Alarm
- 3 1/2 Digit Backlit Display
- Temperature Module
- 24 VAC Isolated power

The advanced "isolated" circuitry of the 720 Series II pH/ORP Monitor/controllers guarantees accurate and reliable measurements — completely eliminating ground-loop and noise issues.

The unique sensor preamp allows for longer distances between the sensor and the Monitor/controller without the loss of accuracy or reliability.

All Myron L pH Monitor/controllers feature a highly refined and precise Temperature Compensation

circuit. This feature perfectly matches the NERNST equation correcting the displayed reading to 25°C. The TC may be disabled to conform with USP 24.

Built-in electronic calibration allows for fast quality checks without buffers. (Note: for maximum system accuracy buffers are recommended).

A push-to-test button makes set point checks easy, while the internal alarm set discourages unauthorized adjustments.

Standard on all controller models is a heavy-duty 10 amp output relay, operating on either increasing or decreasing readings. Bright green/red LEDs indicate above/below set point readings.

All 720 Series II models feature an IP64/NEMA 3 splash & corrosion-proof rated enclosure. Compact in size, 6 x 4.8 inches (152 x 122 mm), the 720 Series II models are suitable for panel, bench or surface mounting.

Accessories include a Remote Alarm - RA™. Custom & OEM Models available.

**Reliable
Field
Proven
Designs**

**MYRON L
COMPANY**
pH/Conductivity Instrumentation
Accuracy • Reliability • Simplicity

pH/ORP MONITOR/CONTROLLER SPECIFICATIONS

Range—0-14 pH or ±2000 mV ORP
Display—Analog Models: 2 1/2" (63 mm) Meter
 Digital Models: 1/2" (13 mm) 3 1/2 Digit LCD; opt. 3 1/2 Digit Backlit LCD
Linearity—Electronics: ±0.05% (±0.01 pH units / ±1 mV of full scale)
Resolution—Digital Display: ±0.01 pH units / ±1 mV
 Analog Meter: ±0.13 pH units / ±40 mV
Sensitivity—0.05% of full scale (0.01 pH units / 1.0 mV)
Stability—±0.05% of full scale (±0.01 pH units / ±1.0 mV)
Repeatability—±0.05% of full scale (±0.01 pH units / ±1.0 mV)
Calibration Check—Built in (7 & 0 pH / 0 & -2000 mV)
Recorder Output—Isolated 0-10 VDC @ 5 mA max. (linear); standard all models
Output Impedance—100 Ω ±5%
Sensor Input—1; 3 input option available. (pH & ORP sensors may NOT be mixed).
Control Function—Single Alarm/Controller fully adjustable 0-100% of full scale
 Hysteresis: Adjustable from 0.3-3% of full scale
 Indicators: Above (red) and below (green) set point LEDs (reversible)
 Contact Rating: SPDT 10 amp @ 250 VAC, 30 VDC. Relay operates increasing or decreasing reading (selectable)
 Second Alarm/Controller, with above specifications - optional
Solid State Output—Powered; 24 VDC Unregulated 30 mA max.
Power—115/230 VAC, 50/60 Hz, ±15% (user selectable)
Maximum Power Consumption—@ 115V: 100 milliamps
Dimensions—6" (152 mm) H x 4.8" (122 mm) W x 3.8" (96 mm) D
Construction—Fully gasketed heavy-duty ABS case; splash & corrosion proof
 IP64/NEMA 3 rated
Ambient Temperature Range—32°F to 140°F (0°C to 60°C)
Weight—2 Lbs (0.9 kg)

TO ORDER 720II pH/ORP MONITOR/CONTROLLERS — Choose

MODEL	—	OPTIONS
pH		
721II-	Analog Monitor Only	-SC Second Control Module
722II-	Analog Monitor/controller	-4A 4-20 mA Module (Digital only)
723II-	Digital Monitor/controller	-PA Built-in 70db Piezo electric Alarm (Digital only)
724II-	Digital Monitor Only	-35BL 3 1/2 Digit Backlit LCD
ORP		-TP Temperature Module (Digital only)
726II-	Analog Monitor Only	
727II-	Analog Monitor/controller	
728II-	Digital Monitor/controller	
729II-	Digital Monitor Only	

See Price List for complete selection.

Note: Above Monitor does not include sensor. Please specify sensor when ordering.

pH/ORP SENSORS

These highly accurate sensors utilize a preamplifier to ensure stability over longer distances, and to eliminate potential noise problems thereby ensuring accurate repeatable readings. In addition, these reliable sensors feature an integral temperature sensor to ensure accurate and rapid automatic temperature compensation. Several choices of sensors are available, in 1/2" MNPT or 3/4" MNPT, depending on the demands of the application. The basic pH sensor utilizes the standard round glass electrode with a single reference junction. The basic ORP sensor utilizes a Platinum electrode with a single reference junction. See pH/ORP Sensor Selection Guide for additional information.



MYRON L. COMPANY
pH SENSOR P72S

ACCESSORIES

MODEL	DESCRIPTION
SMP50	Surface Mounting Plate
PAO	70db Piezo Electric Alarm
RA	Remote Alarm - RA™
RAW200	Wire (200 ft/60 meter) Remote Alarm
024-1	24 VAC 1" Solenoid Valve

4, 7, & 10 pH calibration buffers are available.
 Custom & OEM Monitors/controllers available.
 Price and delivery upon request.

WARRANTY

All Myron L Monitor/controllers have a TWO-year warranty. If any Monitor/controller fails to function normally, return the unit to the factory prepaid. If, in the opinion of the factory, failure was due to materials or workmanship, repair or replacement will be made without charge. A reasonable service charge will be made for diagnosis or repairs due to normal wear, abuse or tampering. Warranty is limited to the repair or replacement of Monitor/controller only. The Myron L Company assumes no other responsibility or liability.

TO ORDER SENSOR — Choose

Fitting Size 1/2" or 3/4"	2 or 4
Single Junction	S
Double Junction (Environmental)	D
Low Conductivity (RO/DI pH applications)	LC
Heavy Duty Flat Tip	F

Standard Options include:

25 ft./8 meter cable -25
 100 ft./30 meter cable -100
 Add above suffixes to Series number P7 for pH or O7 for ORP.

Example: P72D-25 (1/2" MNPT double junction pH sensor with a 25 ft./8 meter cable)

See pH/ORP Sensor Selection Guide for details

SPECIFICATIONS

Temperature Compensation—Integral temperature sensor provides automatic TC to 25°C between 32-212°F (0-100°C).
Pressure /Temperature Limits—P72S: intermittent use up to 50 psi (690kPa) 212°F (100°C). High Temperature models available, see pH/ORP Sensor Selection Guide.
Cable—5 wire, 24 ga. shielded, 10' (3 meters) standard. 25' and 100' (8 and 30 meter) lengths available.
Material: PVC body standard.
Dimensions—P72S typical: overall length 6 1/2" (165mm), body 5" (127mm), electrode length 3/4" (19mm).
NOTE: Heavy Duty "F" model sensors may be installed in ANY direction including inverted.

6115 Corte del Cedro
 Carlsbad, CA 92009-1516 USA
 Tel: 760-438-2021
 Fax: 800-869-7668 / 760-931-9189
 www.myronl.com

Built On Trust. Founded in 1957, the Myron L Company is one of the world's leading manufacturers of water quality instruments. Because of our commitment to product improvement, changes in design and specifications are possible. You have our assurance any changes will be guided by our product philosophy: accuracy, reliability, and simplicity.

pH/Conductivity Instrumentation
Accuracy • Reliability • Simplicity

