pH & ORP MONITOR/CONTROLLERS
720 Series II

Reliable Field Proven Design

720II pH w/Analog Display
IP65/NEMA 4X

720II pH w/Digital Display and P74F Sensor
IP65/NEMA 4X

720II ORP w/Digital Display
IP65/NEMA 4X

APPLICATIONS:

- Process Control
- Reverse Osmosis
- 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 3½ digit LCD.
- Advanced "Isolated" circuitry
- Automatic temperature compensation to 25°C (NERNST equation)
- Isolated 0-10 VDC recorder output - standard
- IP65/NEMA 4X water resistant and corrosion-proof enclosure
- Built-in electronic calibration
- Single set point/alarm standard
- Adjustable set point hysteresis
- Solid State 24 VDC Output

- 10 amp relay operates on choice of increasing or decreasing reading
- Push-to-test set point check
- Internal set point discourages unauthorized adjustment
- 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
- 3½ Digit Backlit Display
- Temperature Module
- 24 VAC Isolated power
- 24 VDC Supply Power option

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

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may be disabled to conform with USP requirements.

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 IP65/NEMA 4X water resistant and corrosion-proof rated enclosure. Compact in size, at 152 x 122 mm/ 6 x 4.8 in., the 720 Series II models are suitable for panel, bench or surface mounting.

Accessories include a Remote Alarm - RA™.

Custom & OEM Models available

MYRON L COMPANY
Water Quality Instrumentation
Accuracy • Reliability • Simplicity

SPECIFICATIONS

Ranges	0-14 pH or ±2000 mV ORP
Display	Analog Models: 2.5 in./63 mm Meter
	Digital Models: .5 in./13 mm 3½ Digit LCD;
	Optional: 3½ Digit Backlit
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 and 0 pH / 0 and -2000 mV)
Recorder Output	Isolated 0-10 VDC @ 5 mA max. (linear); standard all models
Output Impedance	100Ω ±5%
Sensor Inputs	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 @ 125 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) 24 VDC or AC optional
Maximum Power Consumption	@ 115V: 100 milliamps
Dimensions	152 H x 122 W x 96 D mm / 6 H x 4.8 W x 3.8 D in.
Construction	Fully gasketed heavy-duty ABS case; water resistant and corrosion proof IP65/NEMA 4X rated
Ambient Temp Range	0 - 60°C / 32 - 140°F
Weight	0.9 kg/2 lbs.

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.

pH SENSOR P74F

NOTE: Heavy Duty "F" model sensors may be installed in ANY direction including inverted.

SPECIFICATIONS

Temperature Compensation: Integral temperature sensor provides automatic TC to 25°C between 0 - 100°C / 32 - 212°F.

Pressure/Temperature Limits: P72S: Intermittent use up to 50 psi/690kPa 100°C/212°F. High Temperature models available, see pH/ORP Sensor Selection Guide.

Cable: 5 wire, 24 ga. shielded, 10 ft./3 meters standard. 25 and 100 ft. / 8 and 30 meter lengths available.

Material: CPVC body standard.

Dimensions: P72S typical: overall length 165 mm/6.5 in., body 127 mm/5 in., electrode length 19 mm/.75 in.

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

MODEL		OPTIONS*	
pH		**-SC**	Second Control Module
721II	Analog Monitor Only	**-4A**	4-20 mA Module (Digital only)
722II	Analog Monitor/controller		
723II	Digital Monitor/controller	**-PA**	Built-in 70db Piezo Electric Alarm (Digital only)
724II	Digital Monitor Only		
ORP		**-35BL**	3½ Digit Backlit LCD
726II	Analog Monitor Only	**-TP**	Temperature Module (Digital only)
727II	Analog Monitor/controller		
728II	Digital Monitor/controller		* *See Price List for complete selection.*
729II	Digital Monitor Only		

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

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

ACCESSORIES

MODEL	DESCRIPTION	
SMP50	Surface Mounting Plate	*Note: Custom & OEM Monitors/controllers available.*
PAO	70db Piezo Electric Alarm	
RA	Remote Alarm - RA™	
RAW200	Wire (200 ft./60 meters) for Remote Alarm	*Price and delivery upon request.*
024-1	24 VAC 1" Solenoid Valve	

Note: 4, 7, and 10 pH calibration buffers are available.

LIMITED WARRANTY

All Myron L Monitor/controllers have a Two Year Limited Warranty. pH Sensors have a Six Month Limited 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.