

# RESISTIVITY MONITOR / CONTROLLERS

## 750 Series II



750II w/ LCD shown with CS10 sensor — sold separately.

750II with Analog Display

IP65/NEMA 4X

### **BENEFITS**

- *Easy to Install*
- *Continuous Process Control*
- *Maintain desired water chemistry*
- *Ensures product quality*

**Reliable Field-Proven Design**

### **BENEFITS:**

- *Affordable*
- *Ease of Operation*
- *Low Maintenance*
- *Ensures Product Quality*

### **APPLICATIONS:**

- *Deionization (DI) and distillation ultrapure water treatment systems*
- *Electronics*
- *Pharmaceuticals*
- *Laboratories*
- *Food Processing*
- *Plating*
- *Power Plants*
- *Boiler Condensate*
- *Process Control*

### **FEATURES:**

- 7 Resistivity ranges from 0-200 Kiloohms to 0-20 Megohms-cm
- Choice of 3½ digit display or analog meter
- Automatic temperature compensation to 25°C
- Isolated 0-10 VDC Recorder Output standard
- IP65/NEMA 4X water-resistant and corrosion-proof enclosure
- Built-in electronic calibration
- Single setpoint/alarm

- Adjustable setpoint hysteresis
- Solid State 24 VDC Output
- 10-amp relay operates on choice of increasing or decreasing reading
- LEDs show "above/below" alarm/control status
- Push-to-test setpoint check
- Internal setpoint discourages unauthorized adjustment
- Selectable 115/230 VAC
- Reliable, easily installed sensor

### *Options Include:*

- Second Alarm/Control Module
- 4-20 mA Isolated Output
- Piezo Electric Alarm
- 3½ Digit Backlit Display
- Temperature Module
- 24 VAC Isolated Power Supply

The unique circuitry of our 750 Series II Resistivity Monitor/controllers guarantees accurate and reliable measurements. Drift-free performance is assured by "field proven" electronics, including automatic DC offset compensation and highly accurate drive voltage.

Since Temperature Compensation is at the heart of accurate water measurement, all Myron L Monitor/controllers feature a highly refined and precise TC circuit. This feature perfectly matches the water temperature coefficient as it changes. All models are

corrected to 25°C. The TC may be disabled to conform with USP requirements.

Built-in electronic calibration allows for fast quality checks.

A push-to-test button makes setpoint 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 readings above or below setpoint.

All 750 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., they are suitable for panel, bench or surface mounting.

Additional options include a 3 Sensor Input Switch and/or a 3 Range Switch and a Remote Alarm™ model RA.

For more information, visit our website at [www.myronl.com](http://www.myronl.com)

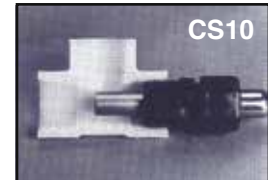
  
**VORTEX**  
**MYRON L<sup>®</sup>**  
**COMPANY**  
Water Quality Instrumentation  
Accuracy • Reliability • Simplicity

## SPECIFICATIONS

<b>Ranges</b>	7 ranges from 0-200K to 0-20MΩ See Price List for further details.	
<b>Display</b>	Analog Models:	2.5 in./63 mm meter
	Digital Models:	.5 in./13 mm 3½ Digit LCD
	Optional:	3½ Digit Backlit
<b>Accuracy</b>	Analog Models:	± 2% of full scale
	Digital Models:	± 1% of full scale
<b>Sensitivity</b>	0.05% of full scale	
<b>Stability</b>	0.05% of full scale	
<b>Repeatability</b>	0.1% of full scale	
<b>Calibration Check</b>	Built-in	
<b>Recorder Output</b>	0-10 VDC @ 5 mA max. (linear); standard all models	
<b>Sensor Inputs</b>	1 (3 input option available)	
<b>Control Function</b>	Single Alarm/Controller fully adjustable 0-100% of full scale Hysteresis: Adjustable from 0.3-3% of full scale Indicators: Above (green) and below (red) setpoint LEDs (reversible) Contact Rating: SPDT 10 amp @ 250 VAC, 30 VDC. Relay operates decreasing or increasing reading (selectable) Second Alarm/controller, with above specifications — optional	
<b>Solid State Output</b>	Powered; 24 VDC unregulated 30 mA max	
<b>Power</b>	115/230 VAC, 50/60 Hz, ±15% (user selectable) 24 VAC optional	
<b>Maximum Power Consumption</b>	@ 115V: 100 milliamps	
<b>Dimensions</b>	152 H x 122 W x 96 D mm / 6 H x 4.8 W x 3.8 D in.	
<b>Construction</b>	Fully gasketed heavy-duty ABS case; water-resistant and corrosion proof IP65/NEMA 4X rated	
<b>Ambient Temp Range</b>	0 - 60°C/32 - 140°F	
<b>Weight</b>	0,9 kg/2 lbs.	

## SENSORS

All 750II Resistivity models require a CS10 series sensor. This reliable sensor features two integral temperature sensors to ensure accurate and rapid automatic temperature compensation. The sturdy polypropylene standard bushing is modular for easy, inexpensive replacement. A PVDF or 316 stainless steel bushing can also be ordered. The metal portion is available in either 316 stainless steel (standard) or titanium.



## SPECIFICATIONS

**Constant:** 0.05  
**Temperature Compensation:** Two integral temperature sensors provide automatic TC to 25°C.  
**Pressure / Temperature Limits:** 100 psi/690 kPa @ 212°F/100°C.  
**Bushing:** Modular Polypropylene threaded 3/4"NPT. 1/2" PVDF (standard) or 316 stainless steel fittings (optional).  
**Wetted Materials:** Electrodes: 316 stainless steel (standard) or titanium (optional).  
**Cable:** Shielded 10 ft./3 meters standard; 25 and 100 ft./8 and 30 meter lengths available.  
**Dimensions:** Metal portion 30 L x 13 Dia. mm/1.2 L x 0.5 Dia. in.; Overall length 91 mm/3.6 in.  
**Note:** Special Order, CS40 and CS41, High Temperature/High Pressure sensors available upon request.

## TO ORDER 750II MONITOR/CONTROLLERS — *Select*

MODEL	—	RANGE*	—	OPTIONS*
751II	Analog Monitor only	Resistivity	-SC	Second Control Module
752II	Analog Monitor/controller	0-200 KΩ	-4A	4-20 mA Module (Digital only)
753II	Digital Monitor/controller	to 0-20 MΩ	-PA	Built-in 70 db Piezo Electric Alarm (753II only)
754II	Digital Monitor only	* See Range Selection Guide	-PAT	Piezo Alarm w/Timer (753II only)
			-35BL	3½ Digit Backlit LCD
			-TP	Temperature Module (Digital only, requires special sensor)

**Example:**  
Model 753II-11-4A is a Digital Resistivity Monitor/controller with a 0-20 megohm range, and a 4-20 mA Output Module.

**Note:** Above Monitor/controllers do not include sensor. Please specify sensor when ordering.

\* See Price List for complete selection.

## ACCESSORIES

MODEL	DESCRIPTION
SMP50	Surface Mounting Plate
3SE	3 Sensor Input Module w/Enclosure
3RER	3 Range Switch Module w/Enclosure
3SRER	3 Sensor & 3 Range Module w/Enclosure
PAO	70 db Piezo Electric Alarm (753II only)
PATO	Piezo Alarm & Timer Module (753II only)
RA	Remote Alarm™ - RA
RAW200	Wire (200 ft./60 meters) for Remote Alarm
CS-11	20 Megohms Calibration Module-NIST
CS-14	2 Megohms Calibration Module-NIST
CS-17	200 Kilohms Calibration Module-NIST

**Note:** See Price List for complete selection. Custom & OEM Monitor/controllers available. Price and delivery upon request.

## TO ORDER SENSORS\* — *Select*

<b>Resistivity:</b> All Ranges	CS10	<b>Standard Options Include:</b> -T Titanium (in place of SS) -25 25 ft./8 meter Cable -100 100 ft./30 meter Cable -PV 1/2" NPT PVDF Bushing (Replaces Polypropylene) -HPSS 1/2" NPT 316 SS Bushing (Replaces Polypropylene)
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**Example:**  
CS10-T-25-HPSS (CS10 sensor, Titanium with a 25'/8m cable and a 1/2" NPT 316 SS Bushing)

See 750II Sensor Selection Guide for details.

## LIMITED WARRANTY

All Myron L Monitor/controllers and sensors have a Two (2) Year Limited Warranty. If any Monitor/controller or sensor 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 or sensor only. The Myron L® Company assumes no other responsibility or liability.

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**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.

