

# RESISTIVITY MONITOR / CONTROLLERS

For 750 Series II



## FEATURES

- 7 Resistivity ranges -  
0-200 Kilohms to 0-20 Megohms-cm
- Choice of 3½ digit display or analog meter
- Automatic temperature compensation to 25°C
- 0-10 VDC Recorder Output
- IP65/NEMA 4X water resistant & corrosion-proof enclosure
- 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
- CE Certified
- 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 and 24 VDC Isolated Power Supply

## APPLICATIONS

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

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 corrected to 25°C. Uncompensated models available to conform with USP 25.

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 above or below setpoint readings.

Digital and Analog 750 Series II models have an IP65/NEMA 4X water resistant & corrosion-proof rated enclosure. At 15.2 x 122 mm/6 x 4.8 in., all models 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-RA™.

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

**CUSTOM & OEM MODELS AVAILABLE**

**MYRON L  
COMPANY**  
Water Quality Instrumentation  
Accuracy • Reliability • Simplicity

## SPECIFICATIONS

<b>Ranges</b>	Resistivity: 7 ranges from 0-200K to 0-30MΩ See Price List for further details.
<b>Display</b>	Models 751II & 752II: 2½ in./63 mm Analog meter Models 753II & 754II: 1/2 in./13 mm 3½ Digit LCD; opt. 3½ Digit Backlit
<b>Accuracy</b>	Models 751II & 752II: ± 2% of full scale Models 753II & 754II: ± 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 on 752II & 753II
<b>Solid State Output</b>	Powered; 24 VDC Unregulated 30 mA max.
<b>Power</b>	115/230 VAC, 50/60 Hz, ±15% (user selectable)
<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</b>	32° to 140°F / 0°C to 60°C
<b>Weight</b>	2 lbs./0.9 kg

## TO ORDER 750 SERIES II MONITOR/CONTROLLERS

MODEL	-	RANGE*	-	OPTIONS*
751II	Analog Monitor only	Resistivity 0-200KΩ	-SC	Second Control Module (752II & 753II only)
752II	Analog Monitor/controller			(752II & 753II only)
753II	Digital Monitor/controller	to 0-20MΩ	-4A	4-20 mA Module (Digital only)
754II	Digital Monitor only			(Digital only)
		* See Range Selection Guide	-PA	Built-in 70db Piezo Electric Alarm (753II only)
				-PAT
			-35BL	
* See Price List for complete selection.				

**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 does not include sensor. Please specify sensor when ordering.

## TO ORDER SENSORS\*:

<b>Resistivity - All Ranges</b>	<b>CS10</b>
<b>Add as Required:</b>	
-T	Titanium (in place of Stainless Steel)
-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)
<b>Example:</b> CS10-T-25-HPSS	
* See Price List for complete selection.	

2450 Impala Drive  
Carlsbad, CA 92010-7226 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.

**Water Quality Instrumentation**  
Accuracy • Reliability • Simplicity

## SENSORS

All 750 II Resistivity models require a CS10 series sensor. This reliable sensor features two integral thermistors 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.



## SENSOR 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 1.2 L x 0.5 Dia. in./30 L x 13 Dia. mm; Overall length 3.6 in./91 mm

**Note:** Special Order, CS40 and CS41, High Temperature/High Pressure sensors available upon request.

## 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	70db Piezo Electric Alarm (753II only)
PATO	Piezo Alarm & Timer Module (753II only)
RA	Remote Alarm - RA™
RAW200	Wire (200 ft./60 mtrs.) 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.

## LIMITED WARRANTY

All Myron L monitor/controllers and sensors have a Two 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.

