RESISTIVITY MONITOR / CONTROLLERS
750 Series II

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 Kilohms 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

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

CUSTOM & OEM MODELS AVAILABLE
**SPECIFICATIONS**

**Ranges**
- 7 ranges from 0-200K to 0-20MΩ
  - See Price List for further details.

**Display**
- Analog Models: 2.5 in./63 mm meter
- Digital Models: .5 in./13 mm 3½ Digit LCD
- Optional: 3 Digit Backlit

**Accuracy**
- Analog Models: ± 2% of full scale
- Digital Models: ± 1% of full scale

**Sensitivity**
- 0.05% of full scale

**Stability**
- 0.05% of full scale

**Repeatability**
- 0.1% of full scale

**Calibration Check**
- Built-in

**Recorder Output**
- 0-10 VDC @ 5 mA max. (linear); standard all models

**Sensor inputs**
- 1 (3 input option available)

**Control Function**
- 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**
- SPDRT 10 amp @ 250 VAC, 30 VDC. Relay operates decreasing or increasing 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 VAC 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**
- 0 - 60°C/32 - 140°F

**Weight**
- 0.9 kg/2 lbs.

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

<table>
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<tr>
<th>MODEL</th>
<th>RANGE*</th>
<th>OPTIONS*</th>
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<tr>
<td>751II</td>
<td>Analog Monitor only</td>
<td>Resistivity: 0-200 KΩ</td>
</tr>
<tr>
<td>752II</td>
<td>Analog Monitor/controller</td>
<td>to 0-20 MΩ</td>
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<tr>
<td>753II</td>
<td>Digital Monitor/controller</td>
<td>* See Range Selection Guide</td>
</tr>
<tr>
<td>754II</td>
<td>Digital Monitor only</td>
<td></td>
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</table>

**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.

**TO ORDER SENSORS* — Select**

<table>
<thead>
<tr>
<th>Resistivity: All Ranges</th>
<th>CS10</th>
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**Standard Options Include:**
- 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)

**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.

**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.

**ACCESSORIES**

**MODEL**
- SMP50: Surface Mounting Plate
- S3E: 3 Sensor Input Module w/Enclosure
- S3RER: 3 Range Switch Module w/Enclosure
- 3SRER: 3 Sensor & 3 Range Module w/Enclosure
- PAO: 70 db Piezo Electric Alarm (753II only)
- PAT: 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

**DESCRIPTION**

**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.

2450 Impala Drive
Carlsbad, CA 92010-7226 USA
Tel: +1-760-438-2021
Fax: +1-800-869-7668 / +1-760-931-9198
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.