# CONDUCTIVITY/TDS MONITOR/CONTROLLERS



## **BENEFITS:**

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

### **APPLICATIONS:**

- Reverse Osmosis
- Process Control
- Seawater Desalination
- Waste Treatment
- Food Processing
- · Plating
- Power Plants
- Laboratories
- Printing
- Aquaculture
- Agriculture
- Environmental Studies
- Medical
- Boilers (250 psi @ 205°C)
- Cooling Towers

### **FEATURES**:

- 34 Conductivity/TDS ranges: 0-1 microsiemens/ppm to 0-200 millisiemens/ppt
- 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 Distributed By:

- · 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
- · CE Certified
- · Unique, easily installed sensor

#### Options include:

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- Second Alarm/control Module
- · 4-20 mA Isolated Output
- Piezo Electric Alarm
- · 31/2 or 41/2 Digit Backlit Display
- Temperature Module
- · 24 VAC Isolated Power Supply
- 24 VDC Isolated Power Supply

The unique circuitry of the 750 Series II Conductivity 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. The TC may be disabled to conform with USP requirements.

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

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.

All 750 Series II models feature an IP65/ NEMA 4X water resistant and corrosionproof 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<sup>™</sup> model RA.

For more information, visit our website at www.myronl.com CUSTOM & OEM MODELS AVAILABLE



#### SPECIFICATIONS

	34 ranges from 0-1 ppm/ $\mu$ S ( $\mu$ M) to 0-200 ppt/mS (mM) See Price List for further details.					
Display Analog Models: 2.5 in./63 mm						
Digital Models: .5 in./13 mm 31/2 Digit LCD						
Optional: 31/2 or 41/2 Digit Backlit						
Accuracy Analog Models: ± 2% of full scale						
Digital Models: ± 1% of full scale						
Sensitivity 0.05% of full scale	0.05% of full scale					
Stability 0.05% of full scale	0.05% of full scale					
Repeatability 0.1% of full scale	0.1% of full scale					
Calibration Check Built-in	Built-in					
Recorder Output 0-10 VDC @ 5 mA max. (linear); standard all mode	0-10 VDC @ 5 mA max. (linear); standard all models					
Sensor Inputs 1 (3 input option available)	1 (3 input option available)					
Control Function Single Alarm/controller fully adjustable 0-100% of f	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) setpoint	LEDs					
(reversible)						
Contact Rating: SPDT 10 amp @ 250 VAC, 30 VD	Contact Rating: SPDT 10 amp @ 250 VAC, 30 VDC. Relay operates decreasing or increasing reading (selectable)					
operates decreasing or increasing reading (selecta						
Second Alarm/controller, with above specifications	<ul> <li>optiona</li> </ul>					
Solid State Output Powered; 24 VDC unregulated 30 mA max.	Powered; 24 VDC unregulated 30 mA max.					
Power 115/230 VAC, 50/60 Hz, ±15% (user selectable)	115/230 VAC, 50/60 Hz, ±15% (user selectable)					
24 VAC or VDC optional						
Maximum Power @ 115V: 100 milliamps						
Consumption						
Dimensions 152 H x 122 W x 96 D mm / 6 H x 4.8 W x 3.8 D in.	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 resista	Fully gasketed heavy-duty ABS case; water resistant and					
corrosion proof IP65/NEMA 4X rated						
Ambient Temp 0-60°C / 32-140°F Range						
Weight 0,9 kg/2 lbs.						

### TO ORDER 750II MONITOR/CONTROLLERS - Select

#### SENSORS — CS51LC, CS51 and CS52

These reliable sensors feature an integral temperature sensor to ensure accurate and rapid automatic temperature compensation. The sturdy polypropylene bushing is modular for easy inexpensive replacement. Several



alternatives for the metal portion of the sensor are available, depending on the demands of the application.

CS51LC sensors (0.1 constant) are used for 5 and below. CS51 sensors (1.0 constant) are used between 0-10 and 0-20.000.

CS52 sensors (10.0 constant) are used above 20,000.

Low cost, low temperature, low pressure sensors available upon request. See 750II Sensor Selection Guide.

#### SPECIFICATIONS

LIMITED WARRANTY

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

Pressure /Temperature Limits: CS51: 100 psi / 690 kPa @ 100°C/212°F. 250 psig @ 205°C, Models CS40 and CS41 sensors available on special order.

Bushing: Modular Polypropylene threaded 3/4" NPT. 1/2" PVDF or 316 stainless steel fittings available as option.

Cable: Shielded 10 ft./3 meters standard 25 and 100 ft./ 8 and 30 meter lengths available. 100 ft./30 meter is maximum recommended.

Dimensions: CS51: Metal portion 30 L x 13 Dia. mm/ 1.2 L x .5 Dia. in. Overall Length 91mm/3.6 in.

TO ORDER 750II MONITOR/CONTROLLERS — Select				ACCESSORIES	
MODEL	RANGE*	OPTION	S*	MODEL	DESCRIPTION
<ul> <li>756II Analog Cond/TDS Monitor</li> <li>757II Analog Cond/TDS Monitor/Controller</li> <li>758II Digital Cond/TDS Monitor/Controller</li> <li>759II Digital Cond/TDS Monitor</li> </ul>	Conductivity/TDS 0-1 ppm/μS (μM) to 0-200 ppt/μS (μM) * See Range Selection Guide	-SC -4A -PA -PAT	Second Control Module 4-20 mA Module (Digital only) Built-in 70 db Piezo Electric Alarm (758II only) Piezo Alarm w/Timer (758II only)	SMP50 3SE 3RE 3SRE PAO PATO RA RAW200	Surface Mounting Plate 3 Sensor Input Module with Enclosure 3 Range Module w/Enclosure 3 Sensor & 3 Range Module with enclosure 70 db Piezo Electric Alarm Only (758II only) Piezo Alarm & Timer Module (758II only) Remote Alarm <sup>™</sup> - RA Wire (200 ft./60 meters) for RA
<i>Example:</i> Model 758II-121-4A is a Digital Conductivity Monitor/controller with a 0-2000 µS range, and a 4-20 mA isolated output. <i>Note:</i> Above Monitor/controllers do not include sensor. Please specify sensor when ordering.		-35BL -45BL -TP * See Price	3½ Digit Backlit LCD 4½ Digit Backlit LCD Temperature Module (Digital only, requires special sensor) List for complete selection.	024-1 <i>Note:</i> See I Custom & O Price and de	24 VAC 1" Solenoid Valve Price List for complete selection. EM Monitor/controllers available. elivery upon request.

# TO ORDER SENSORS - Select

Conductivity/TDS: All Myron L Monitor/controllers and Sensors have a Two (2) Standard Options Include: Year Limited Warranty. If any Monitor/controller or sensor fails 0-5 & Below CS51LC Titanium (in place of SS) -T to function normally, return the unit to the factory prepaid. If. 0-10 to 20,000 CS51 -25 25 ft./8 meter Cable in the opinion of the factory, failure was due to materials or Above 20,000 CS52 -100 100 ft./30 meter Cable workmanship, repair or replacement will be made without charge. -PV 1/2" NPT PVDF Bushing Example: A reasonable service charge will be made for diagnosis or (Replaces Polypropylene) CS51-T-25-HPSS repairs due to normal wear, abuse or tampering. Warranty -HPSS 1/2" NPT 316 SS Bushing (0-10 to 20,000 sensor, Titanium is limited to the repair or replacement of Monitor/controller (Replaces Polypropylene) or sensor only. The Myron L Company assumes no other with a 25'/8m cable and a 1/2" See 750II Sensor Selection Guide responsibility or liability. NPT 316 SS Bushing) for details.

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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.



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