

# CONDUCTIVITY/TDS MONITOR/CONTROLLERS

## 750 Series II



### 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

- 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
- Unique, easily installed sensor

#### Options include:

- Second Alarm/control Module
- 4-20 mA Isolated Output
- Piezo Electric Alarm
- 3½ or 4½ Digit Backlit Display
- Temperature Module
- 24 VAC 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 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)

**CUSTOM & OEM MODELS AVAILABLE**

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

## SPECIFICATIONS

<b>Ranges</b>	34 ranges from 0-1 ppm/ $\mu$ S ( $\mu$ M) to 0-200 ppt/mS (mM) See Price List for further details.
<b>Display</b>	Analog Models: 2.5 in./63 mm Digital Models: .5 in./13 mm 3½ Digit LCD Optional: 3½ or 4½ Digit Backlit
<b>Accuracy</b>	Analog Models: $\pm$ 2% of full scale Digital Models: $\pm$ 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 (red) and below (green) 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, $\pm$ 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 — 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

**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

MODEL	RANGE*	OPTIONS*
756II Analog Cond/TDS Monitor	Conductivity/TDS 0-1 ppm/ $\mu$ S ( $\mu$ M) to	-SC Second Control Module -4A 4-20 mA Module (Digital only)
757II Analog Cond/TDS Monitor/Controller	0-200 ppt/ $\mu$ S ( $\mu$ M)	-PA Built-in 70 db Piezo Electric Alarm (758II only)
758II Digital Cond/TDS Monitor/Controller	* See Range Selection Guide	-PAT Piezo Alarm w/Timer (758II only)
759II Digital Cond/TDS Monitor		-35BL 3½ Digit Backlit LCD -45BL 4½ Digit Backlit LCD -TP Temperature Module (Digital only, requires special sensor)

*Example:*  
Model 758II-121-4A is a Digital Conductivity Monitor/controller with a 0-2000  $\mu$ S range, and a 4-20 mA isolated output.

**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 with Enclosure
3RE	3 Range Module w/Enclosure
3SRE	3 Sensor & 3 Range Module with enclosure
PAO	70 db Piezo Electric Alarm Only (758II only)
PATO	Piezo Alarm & Timer Module (758II only)
RA	Remote Alarm™ - RA
RAW200	Wire (200 ft./60 meters) for RA
024-1	24 VAC 1" Solenoid Valve

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

## TO ORDER SENSORS — Select

Conductivity/TDS:	Standard Options Include:
0-5 & Below CS51LC	-T Titanium (in place of SS)
0-10 to 20,000 CS51	-25 25 ft./8 meter Cable
Above 20,000 CS52	-100 100 ft./30 meter Cable
<b>Example:</b> CS51-T-25-HPSS (0-10 to 20,000 sensor, Titanium with a 25'/8m cable and a 1/2" NPT 316 SS Bushing)	-PV 1/2" NPT PVDF Bushing (Replaces Polypropylene) -HPSS 1/2" NPT 316 SS Bushing (Replaces Polypropylene)

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.

