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

- 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 Isolated Power Supply
- 24 VDC 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

CUSTOM & OEM MODELS AVAILABLE

Myron L Company
Water Quality Instrumentation
Accuracy • Reliability • Simplicity
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: 3½ 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: SPDT 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 or VDC 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.

Ambient Temp
Range
0 - 60°C/32 - 140°F

Weight
0.9 kg/2 lbs.

TO ORDER 750II MONITOR/CONTROLLERS — Select

MODEL
751II Analog Monitor only
752II Analog Monitor/controller
753II Digital Monitor/controller
754II Digital Monitor only

RANGE* — OPTIONS*
Resistivity 0-200 KΩ to 0-20 MΩ
-SC Second Control Module
-4A 4-20 mA Module
(Digital only)
-PA Built-in 70 db Piezo Electric Alarm (753II only)
-PAT Piezo Alarm & Timer Module (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.

TO ORDER SENSORS* — Select

Resistivity: All Ranges
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
S3E
3RER
3SRER
PAO
PATO
RA
RAW200
CS-11
CS-14
CS-17

DESCRIPTION
Surface Mounting Plate
3 Sensor Input Module w/Enclosure
3 Range Switch Module w/Enclosure
3 Sensor & 3 Range Module w/Enclosure
70 db Piezo Electric Alarm (753II only)
Piezo Alarm & Timer Module (753II only)
Remote Alarm™ - RA
Wire (200 ft./60 meters) for Remote Alarm
20 Megohms Calibration Module-NIST
2 Megohms Calibration Module-NIST
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 (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.

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