

Multi-range Conductivity Meters for Laboratories

EC 214 and EC 215 are bench top multi-range conductivity meters for the laboratory.

4 measurement ranges ensure the highest resolution and precision for your measuring requirements.

1-point calibration is performed manually simply by adjusting a knob on the front of the meter.

Temperature compensation of the readings is automatic for the EC 215 models, thanks to the temperature sensor incorporated in probe, with user-selectable temperature coefficient. With EC 214 the temperature compensation is manual and the temperature value can be also set with a knob.

The rugged probe with platinum 4-ring sensor responds faster than conventional stainless steel models and can be also used for measuring highly acidic or alkaline samples, or at high temperature.

In addition, the EC 215R model offers analog output of 0 to 5V that represents the full conductivity scale across all 4 ranges.



Specifications

	EC 214	EC 215	EC 215R
Range	0.0 to 199.9 $\mu\text{S}/\text{cm}$; 0 to 1999 $\mu\text{S}/\text{cm}$; 0.00 to 19.99 mS/cm ; 0.0 to 199.9 mS/cm	0.0 to 199.9 $\mu\text{S}/\text{cm}$; 0 to 1999 $\mu\text{S}/\text{cm}$; 0.00 to 19.99 mS/cm ; 0.0 to 199.9 mS/cm	0.0 to 199.9 $\mu\text{S}/\text{cm}$; 0 to 1999 $\mu\text{S}/\text{cm}$; 0.00 to 19.99 mS/cm ; 0.0 to 199.9 mS/cm
Resolution	0.1 $\mu\text{S}/\text{cm}$; 1 $\mu\text{S}/\text{cm}$; 0.01 mS/cm ; 0.1 mS/cm	0.1 $\mu\text{S}/\text{cm}$; 1 $\mu\text{S}/\text{cm}$; 0.01 mS/cm ; 0.1 mS/cm	0.1 $\mu\text{S}/\text{cm}$; 1 $\mu\text{S}/\text{cm}$; 0.01 mS/cm ; 0.1 mS/cm
analog output	—	—	± 2.5 mV
Accuracy (@20°C/68°F)	$\pm 1\%$ F.S. (excluding probe error)	$\pm 1\%$ F.S. (excluding probe error)	$\pm 1\%$ F.S. (excluding probe error)
analog output	—	—	0.1% of reading
Calibration	manual, 1 point	manual, 1 point	manual, 1 point
Temperature Compensation	manual, 0 to 50°C (32 to 122°F) with $\beta = 2\%/^{\circ}\text{C}$	automatic, 0 to 50°C (32 to 122°F) with β adjustable from 0 to 2.5%/°C	automatic, 0 to 50°C (32 to 122°F) with β adjustable from 0 to 2.5%/°C
Probe	HI 76300, platinum 4-ring sensor, 1 m (3.3') cable (included)	HI 76303, platinum 4-ring sensor, built-in temperature sensor, 1 m (3.3') cable (included)	HI 76303, platinum 4-ring sensor, built-in temperature sensor, 1 m (3.3') cable (included)
Analog Output	—	—	0-5 Vcc
Power Supply	12 Vdc (power adapter included)	12 Vdc (power adapter included)	12 Vdc (power adapter included)
Environment	0 to 50°C (32 to 122°F); RH max 95%	0 to 50°C (32 to 122°F); RH max 95%	0 to 50°C (32 to 122°F); RH max 95%
Dimensions	240 x 182 x 74 mm (9.4 x 7.2 x 2.9")	240 x 182 x 74 mm (9.4 x 7.2 x 2.9")	240 x 182 x 74 mm (9.4 x 7.2 x 2.9")
Weight	1.0 kg (2.2 lb.)	1.0 kg (2.2 lb.)	1.0 kg (2.2 lb.)

Ordering Information

EC 214 is supplied complete with HI 76300 probe with 1 m (3.3') cable, 12 Vdc adapter and instructions.

EC 215 is supplied complete with HI 76303 probe with internal temperature sensor and 1 m (3.3') cable, 12 Vdc adapter and instructions.

EC 215R is supplied complete with HI 76303 probe with internal temperature sensor and 1 m (3.3') cable, 12 Vdc adapter and instructions.

Accessories

HI 76300	4-ring conductivity probe for EC 214	HI 7034L	80000 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL bottle
HI 76303	4-ring conductivity probe with built-in temperature sensor, for EC 215 and EC 215R	HI 7035L	111800 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL bottle
HI 7030L	12880 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL bottle	HI 710005	115 Vac/12 Vdc power adapter
HI 7031L	1413 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL bottle	HI 710006	230 Vac/12 Vdc power adapter
HI 7033L	84 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL bottle	HI 76404	Probe holder

For a complete range of calibration, cleaning and maintenance solutions, see section F. For accessories, see section U.