

HI 8633 and HI 8733

Multi-Range Conductivity Meters for Laboratory Use

Features ...

HI 8633 and **HI 8733** have been designed specifically for use in the areas of production and quality control. It is often necessary to test samples with different concentrations ranging from deionized water to brine.

The amperometric system would require constant recalibration and probe changes, thus making the measurement process very time consuming and unreliable. To solve this problem Hanna has developed the **HI 8633** which uses a 4-Ring potentiometric probe. The rugged probes made in PVC, are ideal for indoor as well as outdoor measurements.

By using one point calibration, it is now possible to obtain accurate readings across a very wide range from 0.1 to 199900 $\mu\text{S}/\text{cm}$.

If the temperature of the solution fluctuates, the **HI 8733** with a built-in temperature sensor and Automatic Temperature Compensation, is the perfect instrument.

As an accessory, the **HI 721313** is available. The kit includes a rugged carrying case with a beaker, a calibration screwdriver and standardizing solution at 12880 $\mu\text{S}/\text{cm}$.



... and Benefits

Specifications	HI 8633	HI 8733
Ranges	$\mu\text{S}/\text{cm}$ $\mu\text{S}/\text{cm}$ mS/cm mS/cm	0.0 to 199.9 0 to 1999 0.00 to 19.99 0.0 to 199.9
Resolution	$\mu\text{S}/\text{cm}$ $\mu\text{S}/\text{cm}$ mS/cm mS/cm	0.1 1 0.01 0.1
Accuracy (@20°C/68°F)	±1% Full Scale (excluding probe error)	
Typical EMC Deviation	±2% Full Scale	
Calibration	Manual single point through trimmer	
Temperature Compensation	Manual from 10 to 40°C (50 to 104°F) with β of 2% per degree °C	Automatic from 0 to 50°C (32 to 122°F) with an adjustable β from 0 to 2.5% per degree °C
Probe	HI 76301W with 1 m (3.3') cable (included)	HI 7633W with ATC, 1 m (3.3') screened cable (included)
Battery Type / Life	1 x 9V / approximately 100 hours of continuous use	
Environment	0 to 50°C (32 to 122°F); RH 95%	
Dimensions	185 x 82 x 45 mm (7.3 x 3.2 x 1.8")	
Weight	355 g (13 oz.)	

Ordering Information

HI 8633 is supplied complete with **HI 76301W** interchangeable conductivity probe with 1 m (3.3') cable, calibration screwdriver, 9V battery and instruction manual.

HI 8733 is supplied complete with **HI 7633W** interchangeable conductivity probe with 1 m (3.3') screened cable, calibration screwdriver, 9V battery and instruction manual.

Accessories

HI 76301W	Conductivity probe for HI 8633
HI 7633W	ATC conductivity probe for HI 8733
HI 710001	Soft carrying case
HI 721313	Rugged carrying case
HI 710009	Blue rubber boot
HI 710010	Orange rubber boot

HI 7030L	12880 $\mu\text{S}/\text{cm}$ calibration solution (460 mL)
HI 7031L	1413 $\mu\text{S}/\text{cm}$ calibration solution (460 mL)
HI 7033L	84 $\mu\text{S}/\text{cm}$ calibration solution (460 mL)
HI 7034L	80000 $\mu\text{S}/\text{cm}$ calibration solution (460 mL)
HI 7035L	111800 $\mu\text{S}/\text{cm}$ calibration solution (460 mL)

For a complete range of conductivity solutions see page G17.
For a comprehensive list of accessories see section U.