

HI 8633

HI 8733

Multi-Range Conductivity Meters for Laboratory Use

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 re-calibration 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 the entire range (0.1 to 199,900 $\mu\text{S}/\text{cm}$). If the temperature of the solution fluctuates, the **HI 8733** with a built-in temperature sensor and Automatic Temperature Compensation, is the perfect instrument.

HI 8633 is supplied complete with an **HI 76301** with 1m (3.3') cable.

HI 8733 is supplied complete with an **HI 7633** with 1m (3.3') cable.

As an accessory, the **HI 8733 KIT** is available. The kit includes a rugged carrying case with a beaker, a calibration screwdriver and standardizing solution.

For calibration solutions see pages F31, F32.

- **4-Ring potentiometric method of measuring.** These meters use the proven 4-Ring method of measuring conductivity. This method is far more accurate and reliable than the common 2-ring amperometric method.
- **Rugged Probe.** The probe and the sleeve are made in PVC with an external diameter of 20mm and length of 120mm.
- **Four complete ranges.** **HI 8633/HI 8733** cover the full range of conductivity measurements.
- **ATC with Adjustable β .** The temperature coefficient is adjustable from 0 to 2.5% per $^{\circ}\text{C}$.

SPECIFICATIONS	HI 8633	HI 8733
RANGE	0.0 to 199.9 $\mu\text{S}/\text{cm}$ ($\mu\text{mho} / \text{cm}$) 0 to 1999 $\mu\text{S}/\text{cm}$ ($\mu\text{mho} / \text{cm}$) 0.00 to 19.99 mS/cm (mmho / cm) 0.0 to 199.9 mS/cm (mmho / cm)	
RESOLUTION	0.1 $\mu\text{S}/\text{cm}$; 1 $\mu\text{S}/\text{cm}$; 0.01 mS/cm ; 0.1 mS/cm	
ACCURACY	1% Full Scale	
CALIBRATION	Manual single point through trimmer	
TEMPERATURE COMPENSATION	Manual from +10 to +40 $^{\circ}\text{C}$ (50 to 104 $^{\circ}\text{F}$)	Automatic with a β of 0 to 2.5% per degree $^{\circ}\text{C}$
4-RING PROBES	HI 76301 with 1 m cable (included)	HI 7633 with ATC & 1m cable (included)
ENVIRONMENT	0 to 50 $^{\circ}\text{C}$ (32 to 122 $^{\circ}\text{F}$); RH 95%	
BATTERY TYPE/LIFE	9 volt (alkaline battery) / 100 hours of continuous use	
DIMENSIONS/WEIGHT	185 x 82 x 45 mm (7.3 x 3.2 x 1.8") / 355 g (13 oz.)	