

## Reliable and Waterproof Multi-range Conductivity Meters

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 instruments® has developed the HI 8633, which uses a 4-ring potentiometric probe. The rugged probe is made of PVC - 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, 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  $\mu\text{S}/\text{cm}$ .



### Specifications

|                       | HI 8633                                                                                                                                                | HI 8733                                                                         |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Range                 | 0.0 to 199.9 $\mu\text{S}/\text{cm}$<br>0 to 1999 $\mu\text{S}/\text{cm}$<br>0.00 to 19.99 $\text{mS}/\text{cm}$<br>0.0 to 199.9 $\text{mS}/\text{cm}$ |                                                                                 |
| Resolution            | 0.1 $\mu\text{S}/\text{cm}$<br>1 $\mu\text{S}/\text{cm}$<br>0.01 $\text{mS}/\text{cm}$<br>0.1 $\text{mS}/\text{cm}$                                    |                                                                                 |
| Accuracy (@20°C/68°F) | $\pm 1\%$ F.S. (excluding probe error)                                                                                                                 |                                                                                 |
| Calibration           | manual, 1 point                                                                                                                                        |                                                                                 |
| Temp. Compensation    | manual, 0 to 50°C (32 to 122°F)<br>with $\beta = 2\%/^{\circ}\text{C}$                                                                                 | automatic, 0 to 50°C (32 to 122°F)<br>with $\beta$ adjustable from 0 to 2.5%/°C |
| Probe                 | HI 76301D with 1 m (3.3') cable (included)                                                                                                             | HI 76302W, ATC,<br>with 1 m (3.3') cable (included)                             |
| Battery Type / Life   | 1 x 9V / approx. 100 hours of continuous use                                                                                                           |                                                                                 |
| Environment           | 0 to 50°C (32 to 122°F); RH max 100%                                                                                                                   |                                                                                 |
| Dimensions            | 164 x 76 x 45 mm (6.4 x 3.0 x 1.8")                                                                                                                    |                                                                                 |
| Weight                | 250 g (8.8 oz)                                                                                                                                         |                                                                                 |

### Ordering Information

HI 8633 is supplied complete with HI 76301D probe with 1 m (3.3') cable, calibration screwdriver, calibration solutions, protective case, battery and instructions.

HI 8733 is supplied complete with HI 76302W probe with internal temperature sensor & 1 m (3.3') cable, calibration screwdriver, calibration solutions, protective case, battery and instructions.

### Accessories

|           |                                                                         |           |                                                                    |
|-----------|-------------------------------------------------------------------------|-----------|--------------------------------------------------------------------|
| HI 76301D | 4-ring conductivity probe for HI 8633                                   | HI 7034L  | 80000 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL bottle  |
| HI 76302W | 4-ring conductivity probe with internal temperature sensor, for HI 8733 | 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 710015 | Shockproof rubber boot, blue                                       |
| HI 7031L  | 1413 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL bottle        | HI 710016 | Shockproof rubber boot, orange                                     |
| HI 7033L  | 84 $\mu\text{S}/\text{cm}$ calibration solution, 500 mL bottle          | HI 710022 | Spare protective case                                              |

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



Conductivity and TDS Meters

