



### Iron and Manganese Meter

Neither iron nor manganese are considered dangerous but high concentrations of these metals in water can create a bittersweet or astringent taste.

The presence of iron in supplied water is undesirable due to the staining effect on laundry and porcelain.

Manganese, in high concentrations, can produce corrosion and scaling in pipes, which is a serious industrial concern.

The HANNA instruments® solution for these applications is the HI 93742, a hand-held photometer which measures low range iron and manganese.

The software driven procedure makes this meter user-friendly with step-by-step instructions.



#### Specifications

| HI 93742 (Iron and Manganese LR) |           |   |
|----------------------------------|-----------|---|
| Range                            | Iron      | 0 to 400 µg/L   |
|                                  | Manganese | 0 to 300 µg/L   |
| Resolution                       |           | 1 µg/L  |
| Accuracy (@20°C/68°F)            | Iron      | ±10 µg/L ±8% of reading   |
|                                  | Manganese | ±2 µg/L ±3% of reading  |
| Light Source                     |           | LED (Light Emitting Diode) 555 nm   |
| Light Life                       |           | Life of the instrument  |
| Light Detector                   |           | Silicon Photocell   |
| Battery Type / Life              |           | 1 x 9V / approx. 40 hours of continuous use; auto-off after 10 minutes of non-use |
| Environment                      |           | 0 to 50°C (32 to 122°F); RH max 95% non-condensing                                |
| Dimensions                       |           | 180 x 83 x 46 mm (7.1 x 3.3 x 1.8")   |
| Weight                           |           | 290 g (10 oz.)  |
| Method                           | Iron      | Adaptation of the TPTZ method   |
|                                  | Manganese | Adaptation of the PAN method  |

#### Accessories

|             |                                   |             |                                   |
|-------------|-----------------------------------|-------------|-----------------------------------|
| HI 710009   | Shockproof rubber boot, blue      | HI 731325   | Cuvet cap (4 pcs)                 |
| HI 710010   | Shockproof rubber boot, orange    | HI 93746-01 | Reagent kit for 50 tests (Fe LR)  |
| HI 731318   | Tissue for wiping cuvetts (4 pcs) | HI 93746-03 | Reagent kit for 150 tests (Fe LR) |
| HI 93703-50 | Cuvet cleaning solution (230 mL)  | HI 93748-01 | Reagent kit for 50 tests (Mn LR)  |
| HI 93748-03 |                                   | HI 93748-03 | Reagent kit for 150 tests (Mn LR) |
| HI 731321   | Measuring cuvet (4 pcs)           |             |                                   |

For a comprehensive list of accessories, see sections U and V

#### Ordering Information

HI 93742 is supplied with 2 cuvetts, battery and instructions.