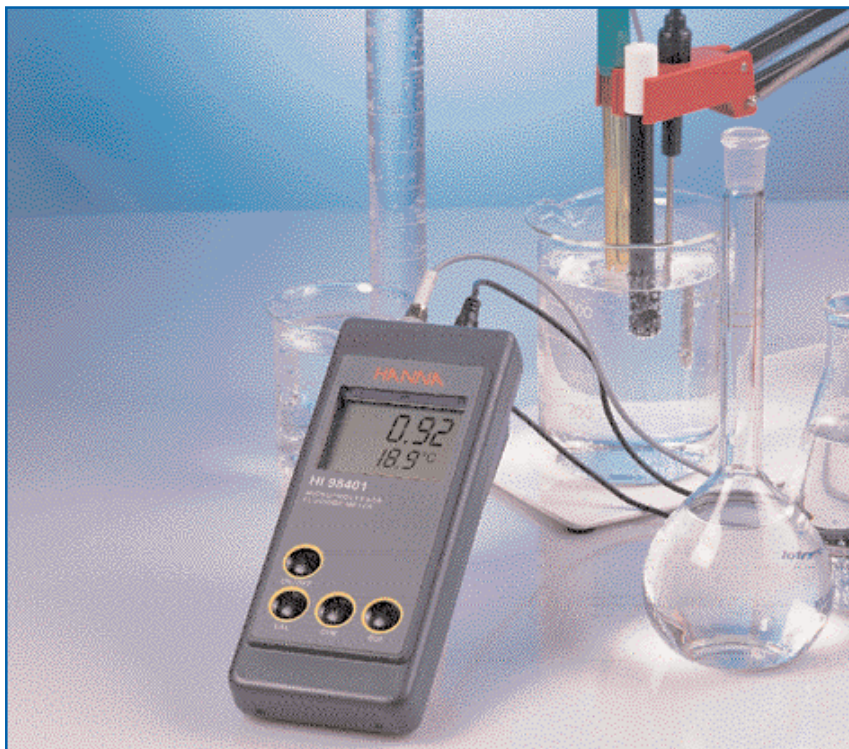




Waterproof and Accurate Fluoride Meter with an Extended Range



The HI 98401 measures fluoride from minute traces to heavy presence. The measurement range spans from 0.05 mg/L to 1.9 g/L in 5 distinct scales to provide the best resolution in every division. In addition, with auto-ranging, HI 98401 automatically selects the range that provides the best resolution. All results are displayed directly in fluoride (F⁻) concentration.

In order to guarantee maximum repeatability, the measurements are performed utilizing the FC 301B fluoride specific electrode and the separate HI 5313 reference electrode.

HI 98401 compensates for the temperature automatically from 5 to 35°C using the HI 7662 stainless steel temperature probe. The temperature measured together with fluoride concentrations are displayed on the large LCD simultaneously.

All operations are microprocessor controlled for added precision and simplicity. Calibration is automatic at one or two points. The first calibration point is in the middle of the range at 100 mg/L (ppm). The slope can then be selected at 10 mg/L for low fluoride measurements or at 1000 mg/L for higher concentrations.

Specifications

| HI 98401 | | |
|--------------------------|-------------|---|
| Range | Fluoride | 0.050 to 0.500 mg/L; 0.50 to 5.00 mg/L; 5.0 to 50.0 mg/L; 50 to 500 mg/L; 0.50 to 1.90 g/L; |
| | Temperature | 0.0 to 50.0°C |
| Resolution | Fluoride | 0.001/0.01/0.1/1 mg/L; 0.01 g/L; |
| | Temperature | 0.1°C |
| Accuracy | Fluoride | ±5% or ±0.02 mg/L (within ±3°C from calibration temperature); |
| | Temperature | ±0.5°C |
| Calibration | | automatic, 1 or 2 point at 100 mg/L and 10.0 mg/L or 1.00 g/L |
| Temperature Compensation | | automatic, 5 to 35°C (with temperature probe) |
| Electrodes | | FC 301B fluoride electrode with BNC connector and 1 m (3.3') cable; HI 5313 reference electrode with 1 m (3.3') cable (not included) |
| Temperature Probe | | HI 7662 with 1 m (3.3') cable (not included) |
| Input Impedance | | 10 ¹² Ohm |
| Battery Type / Life | | 4 x 1.5V AA / approx. 120 hours of continuous use |
| Environment | | 0 to 50°C (32 to 122°F); RH max 100% |
| Dimensions / Weight | | 196 x 80 x 60 mm (7.7 x 3.1 x 2.4") / 500 g (1.1 lb.) |

Accessories

| | | | |
|-------------|--|-------------|--|
| FC 301B | Fluoride electrode | HI 70701L | 1 g/L fluoride solution, 500 mL bottle |
| HI 5313 | Reference electrode | HI 70701M | 1 g/L fluoride solution, 230 mL bottle |
| HI 7662 | Temperature probe | HI 70702/1L | 10 mg/L fluoride solution, 1 L bottle |
| HI 76405 | Electrode holder | HI 70702L | 10 mg/L fluoride solution, 500 mL |
| HI 721317 | Rugged carrying case | HI 70702M | 10 mg/L fluoride solution, 230 mL |
| HI 7023/1L | TISAB fluoride solution, 1 L bottle | HI 70703/1L | 100 mg/L fluoride solution, 1 L bottle |
| HI 7023L | TISAB fluoride solution, 500 mL bottle | HI 70703L | 100 mg/L fluoride solution, 500 mL |
| HI 70701/1L | 1 g/L fluoride solution, 1 L bottle | HI 70703M | 100 mg/L fluoride solution, 230 mL |

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

Ordering Information

HI 98401 is supplied complete with batteries, rugged carrying case and instructions.