

HI 93705

Silica



Silica Meter

Silica is found in all natural waters in dissolved mineral form.

Silica is only slightly soluble in water, solubility and therefore the form of silica in water depends on the pH level of the water and on the minerals containing silica in contact with water.

Its presence in industrial applications is undesirable since it causes scale.

In particular, high pressure turbines are highly effected by this factor.

Heating systems and reverse osmosis plants also require monitoring of silica.

HANNA instruments® offers the HI 93705, a microprocessor-based photometer that determines the concentrations of silica in water in a few fast and easy steps.

Silica is determined in the range from 0.00 to 2.00 mg/L.

Specifications

HI 93705 (Silica)	
Range	0.00 to 2.00 mg/L
Resolution	0.01 mg/L
Accuracy (@20°C/68°F)	±0.03 mg/L ±3% of reading
Light Source	LED (Light Emitting Diode) 890 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	Adaptation of the ASTM D859 method of the heteropoly blue method. The reaction between silica and reagents causes a blue tint in the sample

Accessories

HI 710009	Shockproof rubber boot, blue	HI 731321	Measuring cuvet (4 pcs)
HI 710010	Shockproof rubber boot, orange	HI 731325	Cuvet cap (4 pcs)
HI 731318	Tissue for wiping cuvetts (4 pcs)	HI 93705-01	Reagent kit for 100 tests (SiO ₂)
HI 93703-50	Cuvet cleaning solution (230 mL)	HI 93705-03	Reagent kit for 300 tests (SiO ₂)

Ordering Information

HI 93705 is supplied with 2 cuvetts, battery and instructions.

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