

Nitrate



HI 93728C and HI 93828C are the ideal solution for nitrate measurement in the field.

## Nitrate Meter

Nitrates are present in nature as a result of the decomposition of organic microorganisms or due to their use as fertilizers. Nitrates reduce to nitrites, which in turn easily combine to form substances dangerous to man.

A maximum level of 45 mg/L is established as a worldwide guideline for nitrate concentration in water.

In Europe, the maximum consented level of nitrates in potable water is 50.0 mg/L, while in the USA the EPA has established a guideline for the maximum level of nitrate nitrogen of 10 mg/L (NO<sub>3</sub>-N), which corresponds to 45.0 mg/L of nitrates.

The HANNA instruments' solutions are HI 93728 and HI 93828, hand held meters suited for field measurement. Reading procedures have been made as simple as possible to allow everyone to perform accurate nitrate measurement.

The kits provide you with all you need for field measurement: photometer, reagents and apparatus perfectly fitted in a rugged carrying case

- HI 93728 reads nitrogen nitrate from 0 to 30 mg/L (NO<sub>3</sub>-N); multiply the readout by a factor of 4.43 and you can read up to 133 mg/L of nitrate (NO<sub>3</sub>).
- HI 93828 reads nitrate directly in mg/L of NO<sub>3</sub>, from 0 to 100 mg/L.

With a normal 9V battery you will be able to get more than 300 measurements. The auto shut-off feature (after 10 minutes of non-use) guarantees a long battery life.

### Specifications

	HI 93728 (Nitrate)	HI 93828 (Nitrate)
Range	0.0 to 30.0 mg/L (NO <sub>3</sub> -N)	0 to 100 mg/L (NO <sub>3</sub> )
Resolution	0.1 mg/L	1 mg/L
Accuracy (@20°C/68°F)	±0.5 mg/L ±10% of reading	±5 mg/L ±5% 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	Adaptation of the cadmium reduction method. The reaction between nitrate-nitrogen and the reagent causes an amber tint in the sample	

### Accessories

HI 710009	Shockproof rubber boot, blue	HI 731325	Cuvet cap (4 pcs)
HI 710010	Shockproof rubber boot, orange	HI 93728-01	Reagent kit for 100 tests (NO <sub>3</sub> -N)
HI 731318	Tissue for wiping cuvetts (4 pcs)	HI 93728-03	Reagent kit for 300 tests (NO <sub>3</sub> -N)
HI 93703-50	Cuvet cleaning solution (230 mL)		
HI 731321	Measuring cuvet (4 pcs)		

### Ordering Information

HI 93728 is supplied complete with 2 cuvetts, battery and instructions

HI 93728C, kit includes HI 93728, hard carrying case and reagents.

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