




# Nitrate Sensor Quick Reference Guide

					
Product Type	NT3100sc Sensor			N-ISE sc Sensor	AN-ISE sc Combination Sensor
Parameter	Nitrate			Nitrate	Ammonia, Nitrate
Measurement Method	UV Absorption, sludge compensated, 2-channel beam path			Potentiometric ion-selective electrodes for nitrate and chloride, reference system and temperature sensor	Potentiometric ion-selective electrodes for ammonium, nitrate and temperature sensor
RFID	--			Yes	Yes
Application	Wastewater Drinking Water			Wastewater	Wastewater
Path Length	1 mm	2 mm	5 mm	--	--
Range	0.1 - 90 mg/L NO <sub>3</sub> -N	0.05 - 50 mg/L NO <sub>3</sub> -N	0.02 - 25 mg/L NO <sub>3</sub> -N	0 - 1000 mg/L NO <sub>3</sub> -N	0 - 1000 mg/L NH <sub>4</sub> -N 0 - 1000 mg/L NO <sub>3</sub> -N 0 - 1000 mg/L K <sup>+</sup> 0 - 1000 mg/L Cl <sup>-</sup>
Lower Limit of Detection (LOD)	0.1 mg/L NO <sub>3</sub> -N	0.05 mg/L NO <sub>3</sub> -N	0.02 mg/L NO <sub>3</sub> -N	0.2 mg/L NO <sub>3</sub> -N	0.2 mg/L NH <sub>4</sub> -N and NO <sub>3</sub> -N
Accuracy	± 5% of reading ± 0.1 mg/L NO <sub>3</sub> -N	± 4% of reading ± 0.1 mg/L NO <sub>3</sub> -N from 0.05 - 22 mg/L,  ± 5% of reading ± 0.1 mg/L NO <sub>3</sub> -N from 22 - 50 mg/L	± 3% of reading ± 0.1 mg/L NO <sub>3</sub> -N from 0.02 - 13 mg/L,  ± 5% of reading ± 0.1 mg/L NO <sub>3</sub> -N from 13 - 25 mg/L	5% of measured value +0.2 mg/L (with standard solutions) NO <sub>3</sub> -N	5% of measured value +0.2 mg/L (with standard solutions) NH <sub>4</sub> -N and NO <sub>3</sub> -N
Sample Pressure	0.5 bar			0.3 bar	
Sample Temperature	2 - 40 °C (36 - 100 °F)			2 - 40 °C (35.6 - 104 °F)	
Cable Length	10 m (33 ft)  Extension cables are available: 5, 10, 15, 20, 30 and 50 m. The maximum cable length is 60 m (190 ft).			Standard: 10 m (33.8 ft)  Extension cables are available as an option in the following lengths:  5, 10, 15, 20, 30, 50 m (16.4, 33.8, 49.2, 65.6, 98.4, 164 ft)	Standard: 10 m (33.8 ft)  Extension cables are available as an option in the following lengths:  5, 10, 15, 20, 30, 50 m (16.4, 33.8, 49.2, 65.6, 98.4, 164 ft)
Dimensions (D x L)	70 x 402 mm (3 x 15.8 inches) approximately			84.5 mm x 320 mm (3.3 x 12.6 inches)	
Weight	4.8 kg (10.58 lb) with 10 m cable			2.38 kg (5.25 lb)	
Controller Compatibility	SC4500, SC1000, SC200				

Please note that a Hach SC controller is required for operation, controller must be purchased separately.

\*Subject to change without notice.