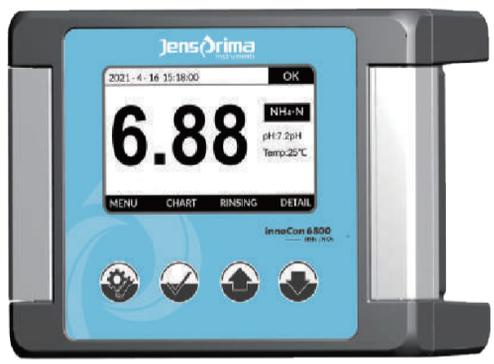
Online Ammonia/Nitrate Analyser(ion electrodemethod)

innoCon 6800N



Parameters

Ammonia/nitrate nitrogen
pH, temperature

Applications

surface water | municipal wastewater | river water treatment and other areas

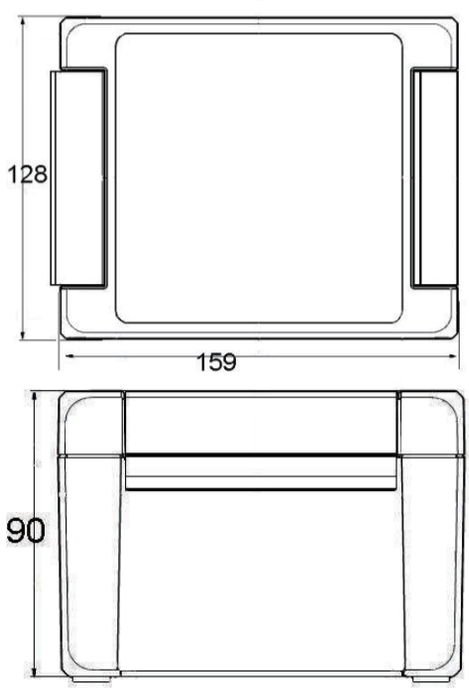
控制器

Model No.: innoCon 6800N
Storage temperature: -20-70°C
Operating temperature: 0-60°C
Display: Graphic dot matrix LCD with LED backlight
Language: Chinese/English
Power supply: 220VAC, 50Hz, optional 24VDC
Analogue output: 4-20mA output, Max. load 500Ω
Alarm output: 3 way relay output, programmable 220VAC/30VDC/2A
Digital communication: RS485 Modbus
Mounting: Wall mounted
Material: cast aluminium
Protection level: IP65
Size: 160×128×93mm
Weight: 1.5Kg

The innoCon 6800N controller has been developed specifically for the digital range of electrodes and is available in a metal housing with a higher degree of protection. The innoSens 550 ammonia-nitrogen electrode can be connected to measure ammonia-nitrogen, pH and temperature, while the innoSens 560 nitrate-nitrogen electrode can be connected to measure nitrate-nitrogen, pH and temperature.

- Sensor immersion measurement, plug and play, no sampling and pre-processing required
- Optional potassium/chlorine electrode for dynamic compensation
- Digital sensor for high interference immunity and long transmission range
- New operating instructions to help reduce operating errors
- Graphic dot matrix LCD display with LED backlight

Dimensional Drawing



Order Guide

Order No.	Description
33-6800-70	innoCon 6800NH Ammonia/Nitrate Controller
35-0550-00	innoSens 550 Ammonia Nitrogen Sensor, cable 10 m
35-0560-00	innoSens 560 Nitrate Nitrogen Sensor , cable 10 m

Ammonia Nitrogen

innoSen 550

Parameters

Ammonia Nitrogen

- The innoSens 550 ammonia nitrogen electrode uses the ion-selective electrode method to measure the concentration of ammonia nitrogen in water. The ammonia ion-selective electrode is used to directly detect ammonium ions in the water environment to determine the concentration of ammonia nitrogen. The ammonia nitrogen sensor uses a pH electrode as a reference electrode, resulting in better stability. The sensor is also susceptible to interference from potassium ions, so when the potassium ion concentration in water is high, an optional potassium ion electrode is available for automatic compensation.
- The innoSens 550 ammonia sensor consists of an ammonium ion electrode, a potassium ion electrode (optional), a pH electrode and a temperature electrode in a single sensor, which can be used to correct for each other and for multiple parameters at the same time.

Measurement range:	NH_4-N：0.1 - 1000 mg/L PH：5 - 10 pH Temperature：0 - 40°C
Accuracy:	NH_4-N：±5 % of measured value pH：±0.1 pH Temperature：±0.2°C
Repeatability:	±3% of measured value
Response time:	<2min
Lifetime:	6 months for diaphragm 3 months for electrolyte
Operating temperature:	2-40°C
Protection class:	IP68
Dimensions:	ϕ62mm×353mm

Nitrate Nitrogen

innoSen 560

Parameters

Nitrate Nitrogen

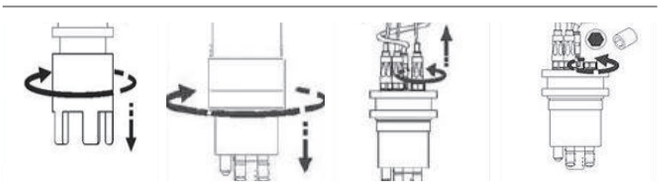
- The innoSens 560 nitrate and nitrogen electrode uses an ion-selective electrode method to measure nitrate and nitrogen concentrations in water, directly detecting nitrate concentrations in the aqueous environment with a nitrate ion-selective electrode. The nitrate sensor uses a pH electrode as a reference electrode to achieve better stability. The sensor is also susceptible to interference from chloride ions, so an optional chloride ion electrode is available for automatic compensation when the chloride concentration in the water is high.
- The innoSens 560 nitrate and nitrogen sensor consists of a nitrate ion electrode, a chloride ion electrode (optional), a pH electrode and a temperature electrode in a single sensor, which can be corrected for each other and for multiple parameters.

Measurement range:	NO_3-N：0.1 - 3000 mg/L PH：3 - 10 pH Temperature：0 - 40°C
Accuracy:	NO_3-N：±5 % of measured value pH：±0.1 pH Temperature：±0.2°C
Repeatability:	±3% of measured value
Response time:	<2min
Lifetime:	6 months for diaphragm 3 months for electrolyte
Operating temperature:	2-40°C
Protection class:	IP68
Dimensions:	ϕ62mm×353mm

Sensor installation

Upon receipt of the sensor the user should first check the sensor for external damage and consult a jensprima technical engineer if you have any corresponding queries.

Note: To ensure that the electrodes are not affected by logistics, the electrodes and sensors are packed separately unless otherwise specified by the user. In this case the user must install the sensor according to the following procedure.



Installation steps

1. Unscrew the electrode protection cover and the fixing cover.
2. Remove the electrode holder from the sensor casing.
3. Screw the electrodes into the corresponding threaded holes with a spanner and tighten to prevent leakage.
4. Write down the corresponding numbers of the different electrodes (the sensors are set at the factory according to 1→ammonia nitrogen and 2→pH).
5. Put the electrode holder back into the sensor casing and tighten the fixing cover and the electrode protection cover.
6. Place the electrode holder back into the sensor casing and tighten the fixing cover and electrode protection cover.
7、The user can set it via the controller.

When the sensor is used for the first time, or if it has been out of the water for more than 30 minutes, leave the sensor in the water sample for more than 60 minutes and take a reading when the value has stabilised.