JNC 第四代氨氮計 Ammonium Nitrogen Sensor

NH4485

[Features]



- IoT NH4-N analyzer: RS-485 + Wi-Fi web, no meter or app; NH3 output.
- Scan the QR code to join device Wi-Fi and open its web page.
- Firmware updates (OTA) from the web page, no tools needed.
- Optional auto-clean: built-in air pump, adjustable schedule.
- Guided calibration in a phone browser with standard solution.
- AI diagnostics: status alerts, electrode fouling and aging check.
- All-in-one: IoT transmitter and sensor built in, ready on power-up.
- IP68 corrosion-resistant body, submersible without a guard tube.
- Rugged isolated cable; power and IoT lines surge-isolated.
- Temperature compensated; temp. per Taiwan EPA NIEA W218.51C.
- K^+ interference compensation: enter site K^+ via web or RS-485.
- NH3 from NH4-N, temperature and pH (pH manual or via PLC).
- EEPROM write protection against frequent setting writes.
- Stores calibration data: calibrate first, then install on site.
- 3-point calibration with standards or samples of known value.
- Holds last reading in calibration/cleaning; status readable.
- Last 3 calibration records (date/slope/points) via Web & RS-485.

[Applications] Wastewater, groundwater, freshwater aquaculture, rivers and lakes.

[Model Selection]

NH4485-Code 1-Code 2-Code 3

Code 1	Function	Code 2	Connector	Code 3	Cable / Hose Length
N	No auto-clean	C	Quick plug	3N	3 m + bare wire
				3C	3 m + quick plug
				10N	10 m + bare wire
				10C	10 m + quick plug
A24	Auto-clean, 24VDC pump	F	Cable gland	20N	20 m + bare wire
				20C	20 m + quick plug
				xN	x m + bare wire
				xC	x m + quick plug

C: Quick plug



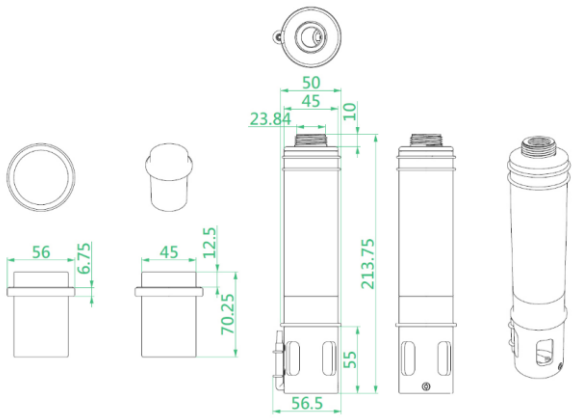
F: Cable gland



[Specifications]

NH4-N		Temperature	
Range	0~10000 mg/L (custom) Slope 70~130%	Sensor	NTC30K
		Range	-10~120°C, ATC
		Accuracy	±0.2°C
Accuracy	±5% of reading ±0.5 mg/L	Resolution	0.1°C
Resolution	0.01 mg/L	Repeatability	0.1°C
Repeatability	±3% of reading ±0.5 mg/L	Others	
Conditions	Operating temp.: 5~50 ℃	Top Thread	3/4" NPT thread
		Base Thread	M42 thread
Response	T90 ≤ 120 s	Housing	PP, food grade, acid/alkali-proof
		Electrode	PVC
Interface	RS-485 Modbus RTU Wi-Fi web page, no app needed QR code opens the web page (192.168.1.80)	Size	ø50*L213.9mm
		Weight	≤340 g
		Power	Cleaning: 24 VDC (opt.) No cleaning: 9~36 VDC
Approvals	CE (EU) FCC (US)	Consumption	Cleaning: 6.8 W No cleaning: 0.8 W
		IP Rating	IP68
Technical			
Principle	Complies with Taiwan EPA NIEA W456.51C. The sensing tip detects NH4-N potential changes, converted to concentration with compensation for accurate data.		
Data Res.	16-bit (0.001% F.S)	Surge Prot.	8000VDC
Protection	Polarity, overload, shorts	Installation	Submersion, tee or insertion

[Dimensions] Unit: mm



[Calibration Notes]

※Optional Sample-NH4 on-site sample calibration

Ion-selective electrode: the most economical online method, no reagents. Each electrode is factory-calibrated per ISO 9001.

For best accuracy, check a site sample by colorimetry and calibrate with it. JNC's optional service dilutes the sample 10x and 100x for a 3-point calibration (low/medium/high).

With K^+ in the site water, enter its concentration on the web page before calibrating.

Item	Model
NH4 calibration	Sample-NH4