JNC

第四代 導電度計 / 總溶解性固體
Electrical Conductivity Sensor

EC485

[Features]



- IoT EC analyzer: RS-485 + Wi-Fi web interface, no meter or app needed.
- 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.
- Widest range 0~500.00 mS/cm: pure water to seawater, one model.
- 4-electrode cell: resists polarization and fouling, low drift.
- IP68 (CNS 14165) corrosion-resistant body; no guard tube needed.
- Rugged isolated cable; power and IoT lines surge-isolated.
- Isolated power and RS-485 prevent on-site interference.
- Temperature compensated; temp. per Taiwan EPA NIEA W218.51C.
- 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, seawater, groundwater, aquaculture, rivers and lakes.

[Model Selection]

EC485-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, DC 24V 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]

EC		TDS	Temperature	
Range	0~500.00 mS/cm Slope 70~130%	0~320000.0 mg/L	Sensor	NTC10K
			Range	0~50°C, ATC
			Accuracy	±0.5°C
Accuracy	±1% of reading	±1% of reading	Resolution	0.1°C
Resolution	0.1 µS/cm Repeat. ±1%	0.1 mg/L	Repeatability	0.1°C
Pressure	Max. 0.3 MPa		Others	
			Top Thread	3/4" NPT thread
Op. Temp.	0~50 °C		Base Thread	M42 thread
Response	T90 1 s		Housing	PP, food grade, acid/alkali-proof
			Electrode	Graphite
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: DC 24V (opt.) No cleaning: DC 9~36V
Approvals	CE (EU) FCC (US)		Consumption	Cleaning: 6.8 W No cleaning: 0.8 W
Origin	Taiwan		IP Rating	IP68 (CNS 14165)
Technical				
Principle	Complies with Taiwan EPA NIEA W204.51C; graphite electrodes measure impedance to calculate conductivity.			
Data Res.	16-bit (0.001% F.S)		Surge Prot.	DC 8000V
Power Iso.	DC 1500V		Comm. Iso.	RS-485 2500Vrms
Protection	Polarity, overload, shorts		Installation	Submersion, tee or insertion

[Dimensions] Unit: mm

