

[Overview]

- IoT conductivity analyzer with dual RS-485 and Wi-Fi web interfaces for remote or on-site monitoring from any phone — no meter and no app required. Delivers accurate, stable EC readings to any meter or software.
- Optional auto-cleaning: built-in air pump and nozzle, adjustable schedule and settling time.
- Guided calibration in a phone browser: swap the cap for a standard-solution bottle.
- AI diagnostics: calibration and cleaning alerts, electrode fouling and aging check.

[Features]

- 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 corrosion-resistant body, submersible without a guard tube.
- Rugged isolated cable; power and IoT lines surge-isolated.
- Temperature compensated; complies with 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 the last reading while calibrating or cleaning; status readable (calibrating/cleaning/settling/service).
- Last 3 calibration records (date/slope/points) via Web & RS-485.



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

[EC Models]

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	N	3 m
A	Auto-clean, 12VDC pump			C	3 m + quick plug
A24	Auto-clean, 24VDC pump	F	Cable gland	xN	x m cable
				xC	x m + quick plug

C: Quick plug



F: Cable gland



[Technical Specifications]

- RS-485 Modbus RTU; web interface, no app, operate from a phone.
- Data resolution: 16-bit (0.001% F.S).
- Surge protection: 8000 VDC.
- Protection: reverse polarity, overload, short circuit.
- Principle: Taiwan EPA NIEA W204.51C; graphite electrode impedance method.
- Installation: submersion, tee fitting or insertion.

[EC 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	Reproducibility	0.1°C
Pressure	Max. 0.3 MPa		Others	
			Top Thread	3/4" NPT thread
Op. Temp.	0~50 °C		Bottom Thread	M42 thread
Response	T90 1 s		Housing	PP, food grade, acid/alkali-proof
			Electrode	Graphite
Interface	RS-485 Modbus RTU Web browser direct read (192.168.1.80)		Size	ø50*L213.9mm
			Weight	≤340 g
			Power	Cleaning: 12 or 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

[Dimensions] Unit: mm

