

Inductive Conductivity Transmitters

EC-4110-I / EC-4110-ICON



Applications:

- Aggressive Chemical Concentration
- Salinity Adjustment/Desalination
- Chemical Recycling System
- Food & Beverage CIP
- Reagent Dilution for Recycle Water
- Scrubber/Cooling Water
- Semiconductor/Electronics Process
- Wastewater Treatment



Inductive Conductivity Sensor

Features:

- 96 x 96 mm Inductive Conductivity/Salinity/TDS Transmitter
- Max. conductivity range up to 2000mS/cm with an anti-fouling electrodeless conductivity sensor
- Simultaneous display of main measurement, absolute Cond., and compensated Cond. value
- Waterproof and dustproof design
- User-friendly operation with text and graphic illustrations, clear signs and easy to understand
- Measuring value can be selected for figure or chart display
- Trace mode can display historical measured value curve from 3-minute to 4-week program
- Equipped with logbook function and error diagnosis record
- Large LCM display with auto-sense backlight and contrast setting function
- Equipped with one analog output and RS-485 interface
- Automatic temperature compensation with NTC30K, PT-1000, or PT-100
- Fine tuning of product adjustment function enable process calibration
- Temperature coefficient compensation by programmable linear and non-linear
- Hi/Lo, Hi/Hi, Lo/Lo selectable two limited contact output with programmable set-point and hysteresis
- Gradually continuous sample measurements average function to enhance stability
- With password and multi-key design—security protection enhancement
- LED indicated alarms or washing status signal
- IP 65 (NEMX 4X)

EC-4110-ICON Only:

- Equipped with CONCENTRATION function for chemical concentration control
- Built-in chemical concentration curves and a self-defined concentration curve function
- Smart dual-way communication allows remote control of settings and concentration



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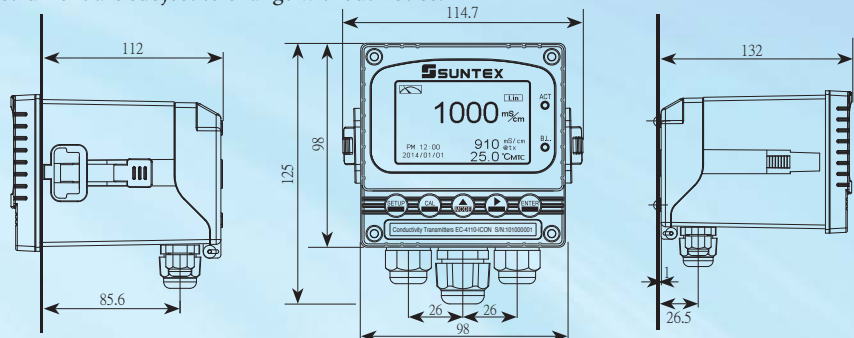
Specifications:

Model	EC-4110-I	EC-4110-ICON
Measuring modes	Conductivity/TDS/Salinity/Temp./Concentration(EC-4110-ICON Only)	
Range	Conductivity	0.0 μ S/cm~2000 mS/cm (depends on selected range); Auto or Fixed
	Salinity	0.0 ppt~70.0 ppt
	TDS	0 ppm ~ 19999 ppm ; 0.00~199.9 ppt
	Temp.	PT-1000/PT-100: -30.0~200.0°C ; NTC-30K: -30.0~130.0°C
Concentration	—	NaCl_28%: 0~28% HCl_18%: 0~18%, HCl_39%: 22~39% HNO3_30%: 0~30%, HNO3_96%: 35~96% NaOH_24%: 0~24%, NaOH_50%: 15~50% H2SO4_37%: 0~37%, H2SO4_88%: 28~88%, H2SO4_99%: 89~99% H3PO4_35%: 0~35% User-Defined Concentration Table (9 temp. x 9 Concentration/Cond. matrix)
	Concentration	—
Resolutions	Conductivity	0.1 μ S/cm, 0.01mS/cm, 0.1mS/cm, 1mS/cm
	Temp.	0.1°C
	Concentration	—
Accuracy	Conductivity	± 1% (± 1 digit)
	Temp.	± 0.2°C (± 1 Digit), Equipped with temperature error correction function
Temperature compensation	Automatic with NTC 30K Ω / PT-1000 /PT-100	
	Manual adjustment temp. compensation	
Calibration mode	(1) Manual cell-constant adjustment (2) Conductivity standard solution calibration (3)Zero-point calibration	
Production adjustment	Factor: 0.7000~1.3000	
Ambient temperature	0~50°C	
Storage temperature	-20~70°C	
Cell constant	Freely adjustable 0.008~99.999cm ⁻¹	
Temperature coefficient	Linear temperature compensation at 0.00%~40.00%, Non-linear compensation and Off-compensation	
Compensation Temperature	Freely adjustable & setting for the specific temperature value: 0~200°C	
Display	Large LCM with sensitization sensor for auto/manual illumination function and contract function	
	Text mode: Numerical display	
	Chart mode: 3 mins real-time dynamic graph(Cond.& Concentration only) Trace mode: Set up from 3 mins to four weeks duration of the measured value trend graph(Cond.& Concentration only)	
Current output	Isolated DC 0/4~20mA corresponding to measurement, max. load 500 Ω	
Serial interface	RS-485(MODBUS RTU or ASCII)	
Modbus communications	Measuring value, calibration data, product adjustment, logbook, parameter readout & selection	
Logbook	50 event records for important events & diagnostic error records	
Setting	Contact	240VAC, 0.5A max. (recommend)
	Activate	Hi/Lo, Hi/Hi, Lo/Lo selectable two limited programmable, ON/OFF
Wash	Contact	240VAC, 0.5A max. (recommend)
	Time	ON: 0~99min.59sec. / OFF:0~999 hours59min.
Power supply	100~240VAC \pm 10%, 7W Max., 50/60 Hz	
Installation	Wall or pipe or panel mounting	
Dimensions	96 mm x 96 mm x 132 mm (H x W x D)	
Cut out dimensions	93 mm x 93 mm (H x W)	
Weight	0.5 kg	
Protection	IP 65 (NEMA 4X)	

*The specifications and appearance of the instrument are subject to change without notice.

Optional Accessories:

1. Inductive conductivity sensor
2. Flat Gasket for Flange Installation
3. O-ring Sealing for Flange Installation
4. Bushing for Tee Installation
5. Immersive Holder with Adapter
6. L-shaped Sensor Holder Support Base
7. Hexagon Nut
8. DLT data logger software



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