

Microprocessor Ion Transmitter

IT-8100-RS



Applications:

- For monitoring wastewater treatment and effluent of semiconductor, solar panel and LCD industries

Features:

- 144 x 144 mm Microprocessor Ion Transmitter
- Waterproof and dustproof designs
- ISE (ion selective electrode) method provides excellent selectivity
- Large LCD display with auto-sense AUTO/ON/OFF programmable illumination
- Automatic function: auto cal, self-test, and error code indication
- 2/3 point auto calibration, show offset and slope after calibration
- Simultaneous display of measuring value and temperature
- NTC 30K Ω or PT-1000 temperature sensor auto-recognizable
- With password and multi-key design, security protection enhancement
- Isolated current output DC 0/4-20 mA, max. load 500 Ω
- Equipped with one analog output and RS-485 interface (Modbus protocol)
- Hi/Lo two limited contact outputs with programmable set-points and hysteresis
- Gradually continuous sample measurements average program to enhance stability
- Automatic sensor clean function with programmable time interval and hysteresis
- LED indicated alarm and washing status signal
- Real time clock display function
- IP 65 (NEMA 4X)





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Specifications

Model		IT-8100-RS
Measuring modes		Concentration (ppm, mg/l) / mV / Temp
Ion type		X ⁻ / X ⁻ / X ⁺ / X ⁺⁺
Measuring range	Concentration	Auto range: 0~19999ppm Manual: 0.00 ~ 19.99ppm / 0.0 ~ 199.9ppm / 0 ~ 19999ppm
	mV	-1999.9~1999.9mV
	Temp.	-10.0~110.0°C
Resolution	Concentration	0.01 / 0.1 / 1
	mV	0.1
	Temp.	0.1
Repeatability		±10% of reading (Depends on ISE sensor and sample)
Accuracy	mV	-1000mV~1000mV: ±1mV Under -1000mV / Over +1000mV: ±0.1% ±1mV
	Temp.	±0.2°C ±1Digit (with temperature error-correction function)
Temperature compensation		Automatic with PT-1000 / NTC-30K or manual adjustment
Calibration mode		2 or 3 points calibration, Offset calibration (13 range selectable)
Ambient temperature		0~50°C
Storage temperature		-20~70°C
Input impedance		> 1012 Ω
Display		Large LCD display with environment light sensor auto/manual illumination function
Analog output		Isolated DC 0/4~20mA corresponding to Ion concentration, max. load 500Ω
Serial interface		RS-485 (Modbus RTU or ASCII)
Setting	Contact	240VAC, 0.5A Max.
	Activate	Hi/Lo two limited programmable
Wash	Contact	240VAC, 0.5A Max.
	Time	ON: 0~9999 sec. / OFF: 0.0~999.9 hours
Voltage output		DC±12V, 1W Max.
Protection		IP 65 (NEMA 4X)
Power supply		100V~240VAC±10% · 50/60Hz
Installation		Wall or Pipe or Panel mounting
Dimensions		144 mm × 144 mm × 115 mm (H×W×D)
Cut off dimensions		138 mm × 138 mm (H×W)
Weight		0.8Kg

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

Notes:

1. The transmitter with Fluoride selective electrode can only measure free fluoride ion in water. (not total fluoride)
2. Ions such as Al and Fe may result in interference to the measurement.
3. Sample conditions:
pH: 5 ~ 10 Temp: 0 ~ 50°C
Conductivity: min 500 s/cm Flow rate: 1 ~ 20 cm/s

Optional Accessories:

1. F⁻ combined electrode with ATC/5m
2. F⁻ STD solution 100ppm/1000ppm
3. F⁻ TISAB (total ionic strength activity buffer) (500 c.c)
4. NH₄⁺/Ca⁺⁺/Cl⁻ or other Ion-Selective electrodes
5. Flow chamber
6. Immersion electrode holder 1 M and 2 M
7. Auto clean system
8. Sunshield



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