

Online Ion Concentration Analyzer

innoCon 6800I

The innoCon 6800 plus intelligent controller is designed for water treatment and industrial process monitoring, with Chinese/English menus, automatic temperature compensation, two 4-20mA/RS485 Modbus RTU and Hi/Lo alarm outputs as standard, panel and wall mounting. Different water quality parameters can be measured by selecting different innoSens electrodes.



Measurement parameters

Ion concentration

Features

- The latest wide power input, super anti-interference design
- Large-screen backlit LCD shows measured values, temperature and relay status
- Chinese / English menu, easier to operate
- Password protection, to prevent unauthorized operation
- New calibration steps can help reduce operational errors
- 2 sets relay output can set High/ Low
- Automatic cleaning relay output
- 2 channel 4-20mA current
- RS485 Modbus output

Technical parameter

Item No.:	innoCon 6800I
Measurement:	Ion concentration
Range:	0 - 20000ppm
Resolution:	0.01/0.1/1ppm
Accuracy:	±5%f.s.
Compensation:	PT1000 or NTC10K
Display:	Big-size screen of crystal display, white back light
language:	Chinese / English
Passcode:	Set mode: 0022, Calibration mode: 0011
Power supply:	90 - 260V AC, 50/60Hz; 24VDC(Optional)
Current output:	2x Isolated 4-20mA outputs, programmable measured value and temperature, max. load 500Ω
Digital communication:	RS485 Modbus RTU
Alarm output:	2 sets of programmable Hi/Lo contacts with hysteresis setting, 5A/250VAC/30VDC
Washing Relay:	Wash interval: 0.1-1000h, Wash time:1-1000s
Working temperature:	0~70.0°C
Protection class:	IP65
Installation:	Wall/Pipe/Panel Mounting
Size:	Dimensions: 144 × 144 × 110mm, Panel Cut Size: 138 × 138mm
Weight:	Ca.0.85Kg
Order No.:	33-6801-50

Fluoride ion/Chlorine ion Electrode

innoSens 510/520

JENSPRIMA's ion electrodes have a separate electrode design, which allows for the replacement of worn out parts of the electrode (electrode fluid and cap). This allows the electrodes to be used repeatedly with regular replacement of the cap and electrode fluid, thus achieving a service life that cannot be achieved with similar products in the market.

Measurement parameters

Fluoride ions, chloride ions

Applications

Municipal wastewater, boiler water, drinking water, outfalls

Applicable Controllers

innoCon 6800I Intelligent Ion Concentration Controller
Flumsys 10TC Controller



Note: If the electrode has been out of the water for approximately 30 minutes, then it is recommended that the electrode be put back into the water to regenerate for 1 hour.

Order Guide

Order No.	Description
35-0500-10	innoSens reference
35-0510-00	innoSens 510 Fluoride ion electrode, cable to be supplied separately
35-0520-00	innoSens 520 Chlorine ion electrode, cable to be supplied separately
35-0100-05	S8 connector cable, 5m
50-0711-00	PA-711 Flow cell, Acrylic

innoSens 510 Fluoride ion Electrode

The fluorine ion-selective electrode is a solid-state thin-film electrode made primarily from LaF3 single crystals with a special polymer periphery.

Technical parameter	
Measuring parameter:	Fluorine ion concentration
Measurement range:	0.1-10000mg/L
Slope:	57±2mV/p F-ion
Response time:	<30s
Stability:	±0.3mV(30min), ±1mV(24h)
Interfering ions:	OH-(pH>8), 形成HF以及HF2-(pH<5) Interfering ion to fluorine ion ratio produces 10% error
pH applicable range:	5-8pH
Operating temperature:	0-40°C
Sensitive film:	LaF3 single crystal
Housing material:	black plastic
Dimensions:	12mm diameter, 100mm length
Mounting:	Flow-through tank/immersion mounting, optional reference electrode required

innoSens 520 Chlorine ion Electrode

The chloride ion selective electrode is a solid film electrode made of a high strength AgCl/ Ag2 S pressed solid, which is then sealed in a plastic body with resin.

Technical parameter	
Measuring parameter:	Chlorine ion concentration
Measurement range:	5-35000mg/L
Slope:	57±2mV/p Cl-ion
Response time:	<30s
Stability:	±0.3mV(30min), ±1mV(24h)
Interfering ions:	OH-/Cu2+/Br-/I-/CN-/Ag+/Hg2+/Pb2+/Ti+ Produces 10% error at a certain ratio
pH applicable range:	1-10pH
Operating temperature:	0-50°C
Sensitive film:	AgCl/Ag2S
Housing material:	black plastic
Dimensions:	12mm diameter, 100mm length
Mounting:	Flow cell mounting, optional reference electrode required