innoCon 6800CL
$Cl_2/ClO_2/O_3$ Measurement

Potentiostatic controller for Free Chlorine, Chlorine dioxide, D. Ozone

innoCon 6800CL Controller is specially designed for water treatment and industrial process control. Used with innoSens 710 sensor and PA-711 flow cell, it can measure the concentration of residual chlorine, chlorine dioxide and ozone in the water. Its adoption of membrane free constant voltage sensor eliminates the need for membrane and reagent replacement. Furthermore, it is highly sensitive and stable, only requiring simple maintenance.

Applications

Process Water · Disinfection · Drinking Water · Food & Beverage · Cooling Water

Waste Water Treatment · Pool & Spa

Technical Data

Measuring parameter

Free chlorine / Cl_2	0 - 2.000 / 0 - 20.00 ppm (mg/L)
Chlorine dioxide / ClO_2	0 - 2.000 / 0 - 20.00 ppm (mg/L)
D. Ozone / O_3	0 - 2.000 / 0 - 20.00 ppm (mg/L)

Input

Measuring sensor	innoSens 710 potentiostatic sensor
Temperature probe	Pt-1000 / NTC-10K (optional)

Output

Analog Output 1	4-20 mA isolated current output for Cl2/ ClO2/O3， or it can be made to represent any segment of the measuring scale Load: Max 600Ω
Analog Output 2	4-20 mA isolated current output for TEMP., it can be made to represent any segment of the measuring scale Load: Max 600Ω
Relay 1&2 (Alarm)	Operation: ON/OFF Selectable action : High / Low Set Point: High/10.00mg/L; Low/4.00mg/L (adjustable) Hysteresis: 0.10mg/L (adjustable) Relay contacts: 5A/250VAC;5A/30VDC
Relay 3 (Washing Relay)	Wash interval: 0.1~1000hour Wash time: 1~1000s Relay contacts: 5A/250VAC;5A/30VDC

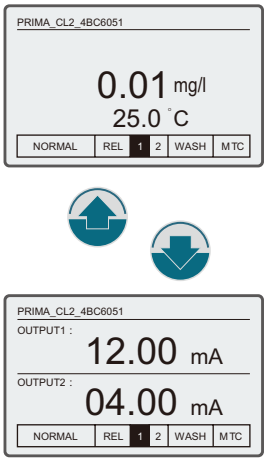
innoCon 6800CL

$Cl_2/ClO_2/O_3$ Measurement

Interface	RS 485 Modbus RTU Baud rate: 9600 bps Data format: 8 bit

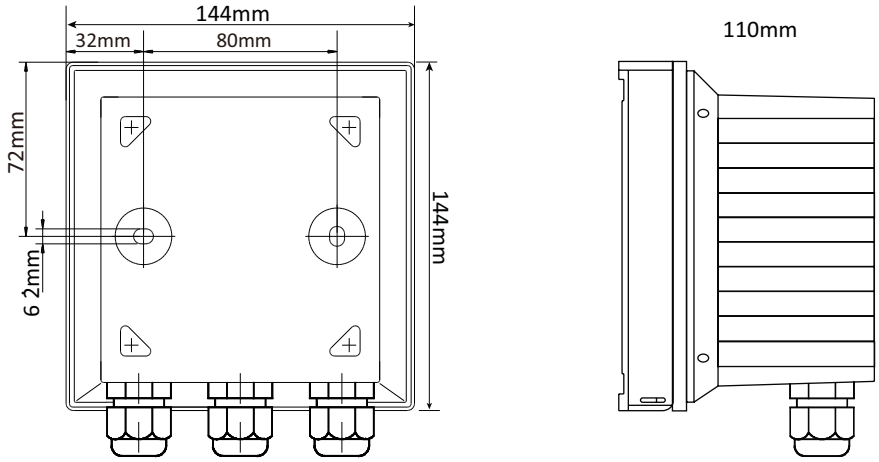
General Information

Power supply	90 - 260V AC, 50/60Hz; 24VDC(Optional)
Temperature	Operating temperature: 0 - 60 ℃ Storage temperature: -20 - 70 ℃
Humidity	Max. 90% rH at 40℃ (non-condensing)
LCD Screen	Big-size screen of crystal display, white back light
Language	Chinese / English
Passcode	Set mode: **0022**, Calibration mode: **0011**
Protection class	IP65
Dimensions	144 * 144 * 110mm
Installation	Wall/Pipe/Panel Mounting
Panel Cut Size	138 * 138mm
Weight	0.85Kg



Mechanical drawing

Wall / panel mounted



Order Guide

$Cl_2/ClO_2/O_3$ controller

Order No.	Model	Descriptions
33-6801-40	***innoCon 6800CL***	Potentiostatic controller, 90 - 260V AC
33-6801-44	***innoCon 6800CL***	Potentiostatic controller, 24V DC

Accessories

Order No.	Model	Descriptions
35-0710-00	***innoSens 710***	Potentiostatic sensor
50-0711-00	***PA-711***	Flow cell for ***innoSens 710***

innoSens 710
Potentiostatic Sensor

- **No need colorants**
- **No need to replace the membrane and electrolyte gel**
- **Easy to install**
- **Low maintenance costs**
- **Zero-point stability**
- **Flow Cell to keep the flow constant**

Measuring principle

Our innoCon 6800CL residual chlorine analyzer is based on a double platinum potentiostatic method.

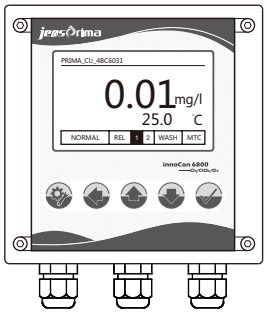
The measurement and the reference electrode maintain a stable potential, and different measured components will produce different current intensities at that potential. In the measurement process, chlorine molecules or hypochlorite will be consumed, as the current intensity produced is related to the concentration of residual chlorine in water.

When pH value is In the range of 6-8, the measured signal decreases while the pH value increases, so innoCon 6800CL chlorine can only be used in the condition of pH ≤ 8. If the pH value in the water is constant, the effect of pH can be compensated by calibration on site.

The same potentiostatic method is used to measure ClO_2 and O_3.

Technical Data

Measuring range:	0 - 2.000, 0 - 20.00 ppm (mg/L)
Resolution:	0.001 / 0.01 ppm (mg/L)
Accuracy:	±2%f.s.
Ambient conditions:	6 - 8 pH (Cl_2) 6 - 9 pH (ClO_2, O_3) 0 - 60 ℃(Working temperature) 6 bar (Max. pressure) 10 - 30 litre/hour, constant (Flow)
Material:	Glass
Cable:	3m
Dimensions:	120 * 12mm



1. Body
2. Drilled cover
3. Inlet (4x6 mm pipe)
4. Flow control
5. Outlet (6x8 mm pipe)
6. Cell cleaning screw
7. Fixing holes
9. Cl2 / ClO2 / O3 sensor
10. Temperature probe (optional)