

TEKSENS

Conductivity / Resistivity/ TDS Measurement

T1603C Conductivity Controller is designed for water treatment and industrial process control, working with the T320/T330 conductivity electrode, it is able to measure the conductivity, resistivity, TDS and temperature of the water sample. With Chinese and English menu, automatic temperature compensation, standard 4-20mA/RS485 Modbus and relay control function output.



Gauge

- Conductivity
- Resistivity
- TDS

APPLICATIONS

- Untreated water
- drinking water
- ultrapure water
- demineralized water

Features

- Large-screen backlit LCD display, easy to read all day long
- Economical and practical, standard 4-20mA output
- RS485 Modbus RTU communication
- 2 independent Hi/Lo alarm relay outputs
- Automatic temperature compensation
- Wide power supply design, 90-260VAC
- IP65 protection, panel/pipe installation



T1603C

Technical Data

Measurement parameter

Measuring parameter	
Conductivity:	0.00-2000mS/cm
Resistivity :	0-20.00MΩ*cm
TDS :	0-99900ppm

Input

Measuring sensor:	T320/330 Conductivity Sensor
Temperature probe:	Pt1000 / NTC 30K (optional)

Output

Analog Output 1
4-20 mA isolated current output for conductivity/resistivity/TDS, it can be made to represent any segment of the measuring scale

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

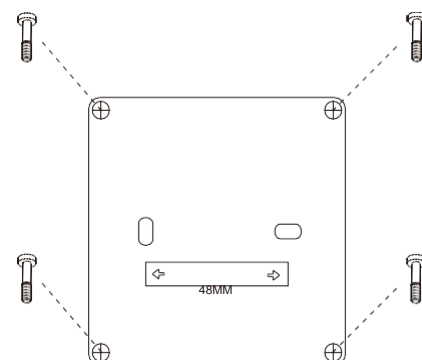
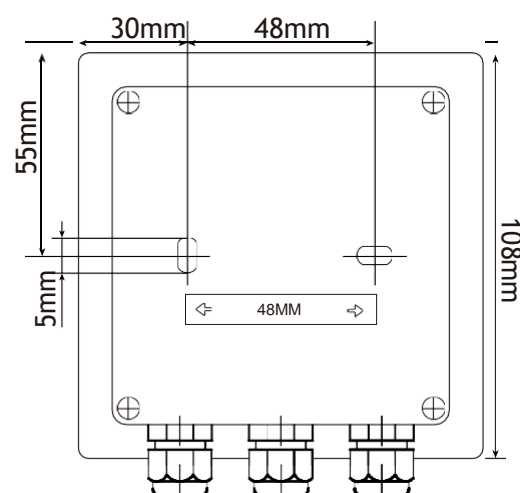
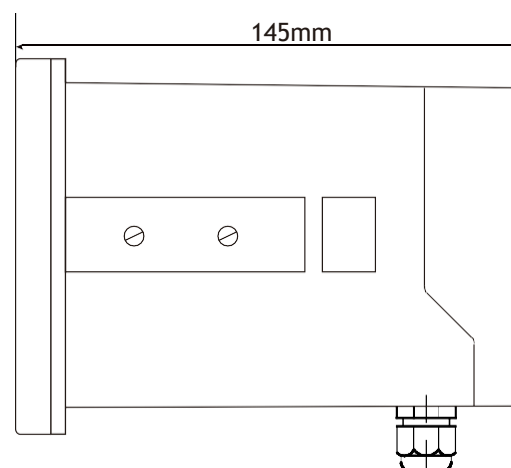
Relay 3 (Washing Relay)	
Wash interval:	0.1~1000hour
Wash time:	1~1000s
Relay contacts:	5A/250VAC; 5A/30VDC

Interface

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

General Information

Resolution	0.01/0.1/1 uS/cm (mS/cm), 0.01 MΩ*cm, 1 ppm
Accuracy	±1% f.s.
Temperature compensation type	Pt 1000/NTC 30K
Range of temperature compensation	-10.0~120.0°C
Temperature	
Working temperature	0~70.0°C,
Store temperature	-20~70.0°C
Display	LCD display
Analog output 1	Isolated 4-20mA , can set conductivity, maximum load 500Ω
Communication	RS485 Modbus RTU
Alarm output	2 sets of ON/OFF contacts, independently set Hi/Lo alarm points, with hysteresis setting, 5A/250VAC, 5A/30VDC
Password Setting mode	0022, calibration mode : 0011
Power supply	90-260VAC, 50/60Hz ; 24VDC optional
Protection grade	IP65
Installation type	Panel/pipe mounting
Dimension	108 x 108 x 145mm
Opening hole size	92 x 92mm
Weight	0.6Kg
Language	English



Order Guide

Conductivity / Resistivity / TDS Controller

Order No.	Descriptions
T1603C	Conductivity controller, 90 - 260V