

TEKSENS

T1603P pH/Redox Controller

The 1603P pH/ORP transmitter is designed for water treatment and industrial process control. It is used with pH/ORP electrodes to measure water pH, redox potential and temperature; English menus, automatic temperature compensation, standard 4-20mA/RS485 Modbus and relay control function output.



Parameter

- pH
- ORP
- Temperature

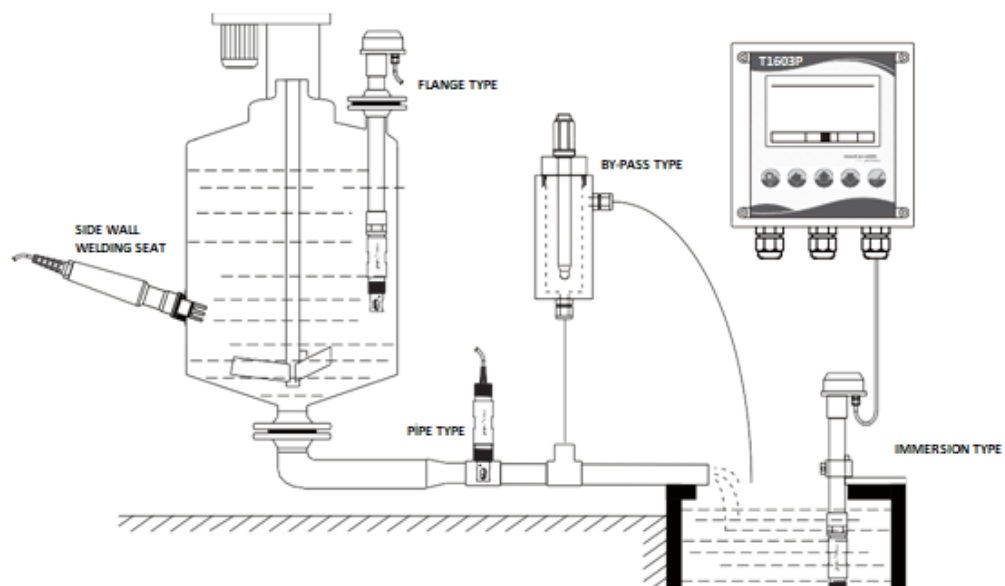
APPLICATIONS

- Sewage/wastewater treatment
- Environmental monitoring
- Industrial processes
- Swimming pools
- Aquaculture

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

T1603P



Technical Data

Measurement parameter

pH: -2.00 - 16.00pH
 ORP: -2000 - 2000 mV
 Temperature: -10 - 130°C

Input

Measuring sensor: pH/ORP sensor
 Temperature probe: Pt-1000 / NTC-10K (optional)

Output

Analog Output 1: 4-20 mA isolated current output for pH/ORP, 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/10.00 pH; Low/4.00 pH (adjustable)

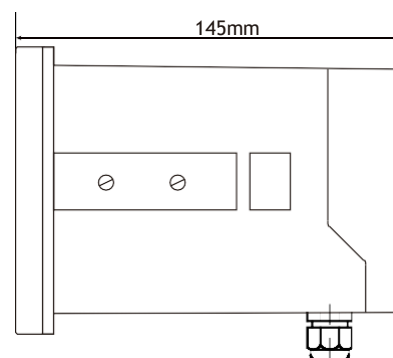
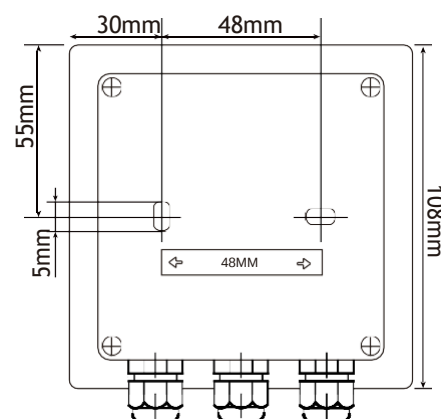
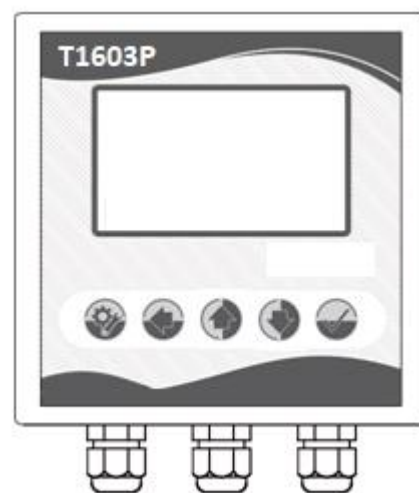
Hysteresis: 0.01 pH (adjustable)

Relay contacts: 5A/250VAC;5A/30VDC

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

General Information

Resolution	0.01pH/1mV/0.1°C
Accuracy	±0.01pH/±1mV/±0.2°C
Temp. Compensation type	Pt 1000/NTC 10K
Range of Temp.Compensation	-10.0~130.0°C
Working temperature	0~70.0°C
Store temperature	-20~70.0°C
Input diagnosis	> 1012Ω
Display	Backlit lattice LCD display
Analog output	Isolated 4-20mA output, can set pH/ORP, maximum load 500Ω
Communication	RS485 Modbus RTU (Baud rate:9600)
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 Language	English/Chinese
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



Order Guide

pH / Redox controller

Order No.	Descriptions
T1603P-A	pH/Redox controller, 90 - 260V AC
T1603P-D	pH/Redox controller, 24V DC

Accessories See pH / Redox sensor.