



Online pH/ORP and Conductivity Analyzer

The MX-10 device is one of the real-time and continuous measurement devices of this company, which, while being small and light, has all the necessary facilities for a stable and easy-to-use controller.

This device is an optimal controller for industrial purposes with the ability to connect various pH/ORP, electrical conductivity and temperature electrodes. This type of transmitter has a resistant body, very small and lightweight (DIN96) and is used for a wide range of needs, from ultrapure water production processes to the wastewater treatment industry.

This analyzer is capable of measuring and displaying one or two parameters such as current isolation output (4~20mA), warning output terminal (2 Circuit change over) and RS485 digital output, the ability to send pH/ORP and temperature measurement results as well as electrical conductivity. and temperature at the same time.

Features

Display: This device has a graphic screen suitable for industrial places with SMT chip technology as well as a high-precision analog-to-digital converter that can read several parameters with appropriate accuracy and repeatability.

High efficiency and longevity: using electronic parts from the most famous and most reliable brands in the world has turned it into a completely industrial and stable device.

Isolated current output: Current output based on electro-optical isolation technology gives it the ability to communicate over long distances with high accuracy.

Output alarm signal: The relays on the device allow defining upper and lower limits, enabling and disabling alarms.

Signal Amplifier: High precision signal amplifier with very low temperature drift and very high stability, enables accurate measurement of ORP, pH and temperature.

Dimensions: 96 x 96 x 110 mm dimensions, with standard (DIN) 92 x 92 mm panel cut and lightweight, making it suitable for use in control rooms, control panels, and wall mounting.

MX-10



Automatic and manual temperature compensation: Due to the dependence of pH value and electrical conductivity on temperature, very accurate temperature compensation is possible in a wider temperature range than the analog method.

power supply: this type of device can be powered by DC with voltages of 12~24 volts or 100~260 VAC and frequency of 50/60Hz.

Temperature indicator: by adding a types of temperature sensors or pH/ORP electrodes and electrical conductivity along with temperature, it was able to measure the sample or even the environment.

Perform more than one point calibration: Perform point calibration allows you to measure correct results over a wider range.

Isolated analog output: the device has a current analog output of 4~20 mA with isolated input and output terminals, which provides the ability to connect to any external device.

Relay output: Alarms in the system or the departure of values from the upper and lower limits defined on the screen are operated by two free voltage connection outputs and are announced by high amp relays to be used in control or automation systems.

Modbus digital output: RS485 digital output can send pH/ORP or electrical conductivity/TDS and temperature measurement results simultaneously.



MX-10



• High limit warning

• Low limit warning light

• Waterproof and dustproof keyboard

• Multi-line screen suitable for industrial and high temperature environments

Specifications

Parameters	Temperature	TDS	EC	ORP	pH
Range	0~80/	0.25~100/	0.5~200/		
	0~100/	0.5~1000/	1.0~2000/	±1000/	0~/14
	0~135	250~10000	500~20000	±2000/ mV	-2~16
	°C	ppm	µS/cm		
Accuracy	0.1 °C	0.01 ppm	0.01 µS/cm	0.01 mV	0.01
Correctness	±0.3 °C	1.5% FS	1.5% FS	±0.1%FS	±0.05 pH
Output analog signal	Dual output current 4~20 mA Isolated output				
Digital communication	RS485 Modbus				
Control interface	ON/OFF relay output contact				
Relay electric current	Maximum 240V 5 A; Maximum 115V 10 A				
Relay delay	Adjustable				
Electric current output	750 Ω				
Insulation resistance	≥20 M				
Power supply	220 ±22 VAC, 50 ±1 Hz				
Overall dimensions (D x W x L)	96×46×110 mm				
Panel drilling dimensions	92×92 mm				
Weight	0.6 kg				
working conditions	Environment temperature , :0~60 °C ,Relative humidity up to %95				
Housing enclosure rating	65				
Sensor enclosure rating	68				