



## Multi Parameter Transmitter

This type of transmitter is made with the capabilities expected from an advanced controller and is in line with the facilities of world famous brands such as Hach and WTW and for a wide range of cases that require extraordinary water production processes to industrial applications.

### User friendly

The presence of a large and color touch screen with a high processor speed and a good feeling gives a professional user experience.

The presence of USB port, the ability to connect flash memory and LAN output enables the transfer of information in the most convenient way possible.

### Features

#### Temperature compensation by microcomputer:

For temperature sensitive sensors, very accurate temperature compensation is possible over 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 100~240 VAC and frequency of 50/60Hz.

#### Temperature indicator:

By adding types of temperature sensors, you will be able to measure the temperature of the sample or even the environment.

#### Perform more than one point calibration:

Performing a multi-point calibration allows you to achieve more accurate results over a wider range of measurements.

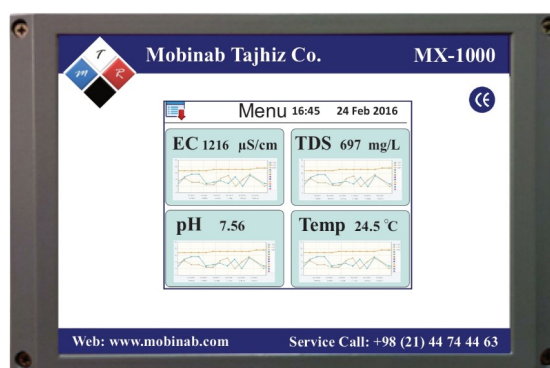
#### Isolated and digital analog output:

The device has 4-20 mA output with isolated input and output terminals, and the RS232/RS485 interface provides the ability to connect to any external device.

#### Relay output:

The existence of four output relays to announce the alarms in the system or when the values go out of the defined upper and lower limits, allows it to be used in control or automation systems.

## MX-1000



### Ability to connect all kinds of analog and digital sensors

All spectroscopic sensors such as COD, nitrate, phosphate

- Types of chlorine sensors
- Ozone sensor
- Dissolved Oxygen
- Suspended Solids
- turbidity
- Sensor (pH/ORP)
- electrical conductivity (EC)
- Ion selector sensors

and any sensor with analog or digital output

### Computational parameters

The powerful processor of this device allows you, in addition to the ability to connect all kinds of sensors and provide their detailed and classified reports, to define all kinds of calculation parameters with complex formulas for it.

MX-1000 is able to receive different formulas to convert parameters to each other and provide calculation parameters. Some of the following parameters can be mentioned among others:

- Calculation of TDS and salinity from parameters of electrical conductivity, temperature and pressure
- Calculation of TSS from turbidity
- Calculation of BOD and TOC from the sensor of organic load and COD



## Types of Sensors that Can be Used

The modular design of this controller has made it suitable for accepting all kinds of sensors, and based on the input card that is installed on it, in addition to parameters such as pH, ORP, EC, temperature, etc., all kinds of special sensors with standard analog and digital outputs also be receptive.

By implementing the sensor protocol of the world's leading companies, this controller is able to read the sensors of famous brands such as Hach, WTW, Hamilton, ABB, Aqualabo, etc.

### pH / ORP Sensors

Types of two-wire and three-wire pH and ORP sensors (with reference electrode) with or without temperature are directly connected to this controller. These electrodes with different material can withstand physical pressures such as pressure and temperature or different chemical agents. The existence of the temperature sensor next to the pH sensor and in one body provides the possibility of accurate and fast measurement of the sample temperature and its effect on pH changes. The safety level of the sensors is IP68 and they are suitable for installation in harsh and rough conditions of industrial environments as well as all types of sewage.



### Features

The electrical conductivity sensor with a stable cell constant is directly connected to this controller. These sensors are recommended for all water and wastewater applications. The presence of a temperature sensor on these sensors greatly reduces the fault rate. Parameters such as TDS and salinity can also be calculated from these sensors with various controllers of this company.



### Oxid sensors such as chlorine and ozone

The amperometric electrode of chlorination is equipped with a reference sensor to reduce the response drop fault. Its unique design has significantly reduced the sensitivity of response to pH values and fluctuations. The stable calibration of this sensor is one of its unique features, whose calibration coefficients are stable for a long time and have minimal response time drop.



### Ability to connect all kinds of analog and digital sensors

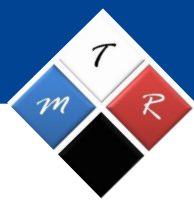
Oxygen sensors can be connected to this controller in two types, electrochemical (galvanic) and optical (luminescence) to respond to different conditions with different sensitivities.



### User friendly

The nephelometric turbidity sensor of this analyzer can be used from purified water with very little turbidity to all types of wastewater with high turbidity. The basis of the turbidity measurement of this analyzer is the nephelometric system and it fully complies with the guidelines of ISO 7027. These sensors are used in different concentration ranges from pure water to wastewater with suspended particles of 50 g/L.





This analyzer has been designed using electronic facilities and modern technology. The facilities available on this device are compatible with European and American designs. Due to its complete design inside Mobinab Tajhiz Rad Rad Company, the features of the device such as analog and digital outputs, the enclosure of the device, etc. can be changed based on the needs and wishes of our esteemed customers. In the standard design of this device, all kinds of analog and digital outputs are considered along with command and warning relays. Also, network and USB outputs provide easy and quick access to recorded results.

<b>Specification</b>	
<b>Number of digital channels</b>	Ability to connect more than twenty digital sensors (can be upgraded to more sensors)
<b>Number of analog channels</b>	Ability to connect four analog sensors
<b>Display</b>	Touch-sensitive color with a resolution of 320 x 240 pixels (HD resolution can be ordered)
<b>Internal memory</b>	8 GB (expandable with memory card)
<b>Operating temperature</b>	-20 to +60 degrees Celsius
<b>Relative humidity operation</b>	to 95% non-dense 0
<b>Analog output</b>	8Current output 4 to 20 mA or voltage 0 to 10 V (can be upgraded by adding an IO ) module
<b>Communication</b>	RS485, RS232, Ethernet, USB
<b>Alarm output</b>	4 programmable alarm relays with hysteresis and delay capabilities (can be upgraded by adding modules (IO
<b>Temperature compensation</b>	Equipped with internal sensor
<b>AC voltage power</b>	264~90VAC / 50VA / 50-60 Hz
<b>DC voltage power</b>	24~12VDC / 50VA
<b>European standards</b>	CE
<b>Enclosure rating</b>	IP65
<b>Dimensions L×W×H</b>	110×200×300mm
<b>Material Enclosure</b>	Aluminum, stainless steel 316L, polymer
<b>Dimensions</b>	90x170x280
<b>Weight</b>	With aluminum frame 2.6 kg