Online pH Indicating Controller Transmitter
MS pH 97 (WeatherProof)



FEATURE

- Advanced Embedded Microcontroller Based Design
- IP 65 Weatherproof Enclosure
- Easy Front Key Calibration
- Auto / Manual Temperature Compensation
- LED indication for relay status
- Set Point – 4 Nos (Special Logic)
- 4 Digit, 1 inch High Intensity Red LED Display
- pH Sensor Slope Indication (Health of pH Sensor)
- 4 to 20 mA DC Isolated Output
- RS 485 Isolated Output (Optional)

DESCRIPTION

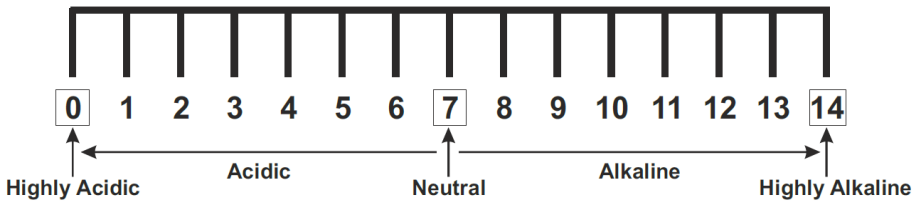
MicroSet pH Indicating Controller Transmitter Model MS pH 97 is used for various industrial applications. MS pH 97 is a convenient and cost-effective solution for monitoring and maintaining pH value. It can accept input from any pH sensor. MS pH 97 output is in the form of Analogue 4-20 mA DC or MODBUS RS 485 RTU (Optional). Online pH indication provided through LED is easily readable. 2 Nos Relay Outputs are provided to operate Alarm, Solenoid Valve, Pump etc. 4 Nos Setpoints for Relays can be programmed using Frontal Keypad.

PRINCIPLE

Why pH Measurement is required?

To check the acidic or alkaline nature of aqueous solution. pH (Potential Hydrogen) is unit of measurement, used to determine the Acidity or Alkalinity of an aqueous solution. Practical pH scale for industrial instrumentation ranges from 0 to 14 pH. The acidic substances range from 0 to 6 and on the other end are the alkaline substances, which range from 8 to 14, with pH 7 being neutral, this is the pH of pure water which is neither very acidic nor very alkaline, is said to be neutral.

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How pH is measured?

Although everyone is familiar with Litmus paper, the only reliable way to measure pH is using Potentiometric Combination electrodes. These electrodes develop a millivolts output corresponding to pH value of solution which is directly proportional to the Free Hydrogen ion concentration in an aqueous Solution. These generated raw mill volts are fed to MS pH 97 where it is processed by amplifier & reading is displayed on meter

TECHNICAL SPECIFICATION

pH Range	: 0 - 14 pH
Temperature Range	: 0 to 149.9°C
pH Resolution	: 0.01 pH
Temperature Resolution	: 0.1°C
pH Accuracy	: ± 0.01pH
Temperature Accuracy	: ± 1°C
pH Repeatability	: ± 1 LSB
Display	: 4 Digit, 1 inch Red LED
Set Point	: 4 Nos (Special Logic)
Calibration	: 2 Point / 3 Point
Output	: 2 Isolated Relays (230 V AC / 5 A)
Retransmission Output	: Isolated 4-20 mA DC for pH (Isolated RS 485 Optional)
Temperature Compensation	: Auto (PT-100), Manual (Adjustable 0 to 149.9°C)
Power Supply	: 230 V AC ±10%, 50 Hz
Enclosure MOC	: ABS
Enclosure Protection	: IP 65
Mounting	: Field Mounted
Dimensions	: 120 x 200 x 75 mm
Weight	: 0.86 kg

APPLICATION

Water Treatment Plant (WTP)	Wastewater Treatment Plant (WWTP)
Effluent Treatment Plant (ETP)	Sewage Treatment Plant (STP)
RO Water Plant	Power Plant
Hydroponics	Chemical Industry
Textile Industry	Paper & Pulp
Beverages / Food Industry	Pharma Industry

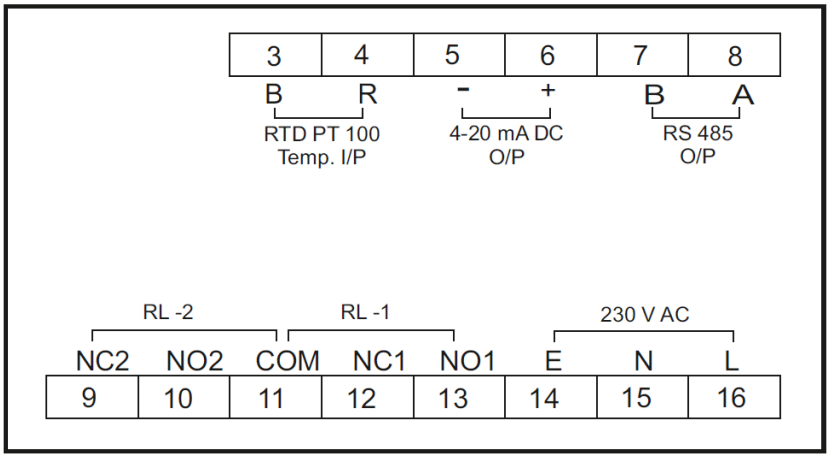
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Scrubber Application
Steel Industry
Pigment Industry
Aqua Culture

DIMENSION

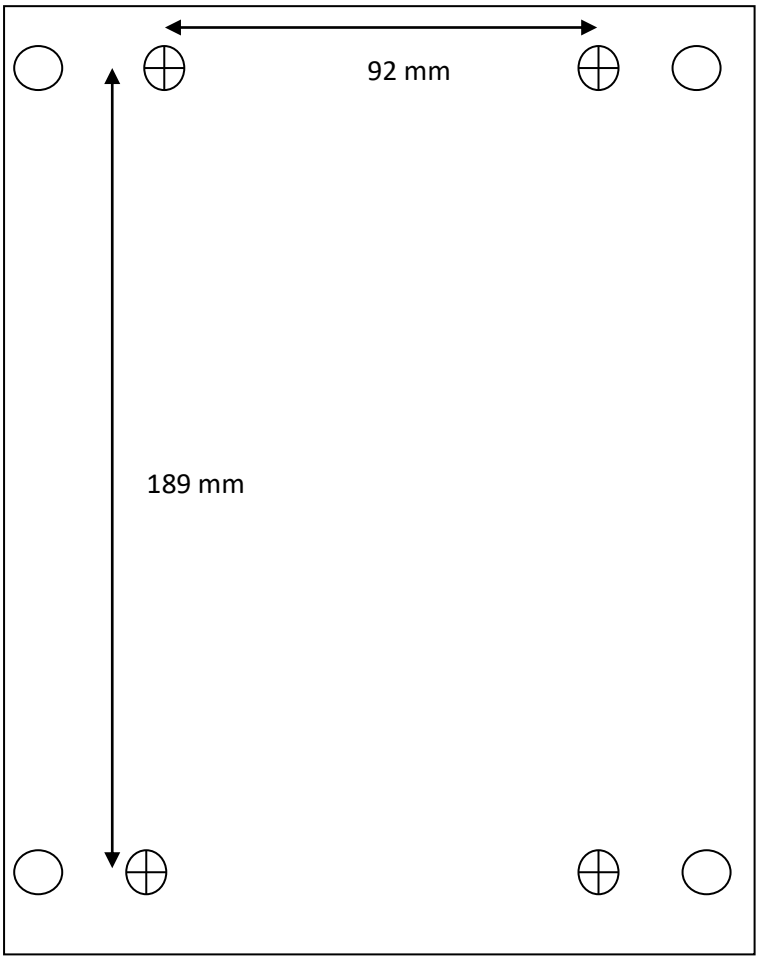


TERMINAL DETAILS



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WALL MOUNTING DETAILS



BACKSIDE HOLE DISTANCE

Note : Due to continuous improvement in product, specifications & looks may vary

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