

**MADECO MDPH4081 INDUSTRIAL PH METER****MDPH4081****Description**

MDPH-4081 industrial pH meter is our latest generation of microprocessor-based instrument, with English display,

menu operation, a high intelligent, multi-function, high measurement performance, environmental adaptability and other characteristics.

It is a highly intelligent online continuous monitoring instrument, integrate with the sensor and the

secondary meter. Can be equipped with three composite or two composite electrodes to meet a variety of sites.

Can be widely used for continuous monitoring of PH value for thermal power, chemical fertilizer, metallurgy, environmental

protection, pharmaceutical, biochemical, food and water and other solution.

## Features

New design, Aluminium shell, Metal texture.

**Intelligent:** This industrial PH meter adopts high-precision AD conversion and single chip microcomputer

processing technologies and can be used for the measurement of the PH values and temperature, automatic

temperature compensation and self-checking.

**Reliability:** All the components are arranged on one circuit board. No complicated functional switch, adjusting

knob or potentiometer arranged on this instrument.

**Double high impedance input:** The latest components are adopted; The impedance of the double high impedance

input can reach as high as  $10^{12}\Omega$ . It has strong interference immunity.

**Solution grounding:** This can eliminate all the disturbance of the ground circuit.

**Isolated current output:** Optoelectronic isolating technology is adopted. This meter has strong interference

immunity and the capacity of long-distance transmission.

**Communication interface:** it can be easily connected to a computer to perform monitoring and communication.

**Automatic temperature compensation:** It performs automatic temperature compensation when the temperature is

within the range of  $0\sim 99.9^{\circ}\text{C}$ .

**Water proof and dust-proof design:** Its protection grade is IP54. It is applicable for outdoor use.

**Display, menu and notepad:** It adopts menu operation, which is like that in a computer. It can be easily

operated only according to the prompts and without guidance of the operation manual.

**Multi-parameter display:** The PH values, input mV values (or output current values), temperature, time and status

can be displayed on the screen at the same time.

## Technical Indexes

1. Measuring range: PH value: 0~14.00pH; division value: 0.01pH  
Electric potential value:  $\pm 1999.9\text{mV}$ ; division value: 0.1mV  
Temperature: 0~99.9 $^{\circ}\text{C}$ ; division value: 0.1 $^{\circ}\text{C}$
2. Range for automatic temperature compensation: 0~99.9 $^{\circ}\text{C}$ , with 25 $^{\circ}\text{C}$  as the reference temperature, 0~150 $^{\circ}\text{C}$
3. Water sample tested: 0~99.9 $^{\circ}\text{C}$ , 0.6Mpa
4. Automatic temperature compensation error of the electronic unit:  $\pm 0.03\text{pH}$
5. Repeatability error of the electronic unit:  $\pm 0.02\text{pH}$
6. Stability:  $\pm 0.02\text{pH}/24\text{h}$
7. Input impedance:  $\geq 1 \times 10^{12}\Omega$
8. Clock accuracy:  $\pm 1$  minute/month
9. Isolated current output: 0 ~ 10mA(load <1 5k $\Omega$ ), 4 ~ 20mA(load <750 $\Omega$ )
10. Output current error:  $\leq \pm 1\% \text{FS}$
11. The data storage capacity: 1 month (1 point/5 minutes)
12. High and low alarm relays: AC 220V, 3A
13. Communication interface: RS485 or 232 (optional)
14. Power supply: AC 220V $\pm 22\text{V}$ , 50Hz $\pm 1\text{Hz}$ , 24VDC(optional)
15. Protection grade: IP54, Aluminium shell for outdoor use
16. Overall dimension: 146 (length) x 146 (width) x 150 (depth) mm;  
dimension of the hole: 138 x 138mm
17. Weight: 1.5kg
18. Working conditions: ambient temperature: 0~60 $^{\circ}\text{C}$ ; relative humidity <85%



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