

Industrial PH&ORP Transmitter

Model: MDPH6081

Applications

- Municipal and industrial water treatment in wastewater treatment plants
- Drinking and bathing water monitoring
- Pharmaceutical water
- Cooling tower control
- RO units(reverse osmosis)
- Process industry: Chemical/petro chemical,
- food and beverage, offshore oil rigs, pulp and paper, environmental
- technology, machine building and general plant construction

Special features

- PH accuracy 0.05pH
- ORP accuracy 1mV
- Measuring range 0 ... 14pH
- Best accuracy, reproducibility and long-term stability
- Local zero and span adjustments
- Automatic temperature compensation

Description PH

- | | |
|--------------------------------------|--|
| ■ Measuring range | 0~14.00pH, Resolution:0.01pH |
| ■ Precision | 0.05pH, $\pm 0.3^{\circ}\text{C}$ |
| ■ Stability | $\leq 0.05\text{pH}/24\text{h}$ |
| ■ Automatic temperature compensation | 0~100 $^{\circ}\text{C}$ (pH) |
| ■ Manual temperature compensation | 0~80 $^{\circ}\text{C}$ (pH) |
| ■ Output signal | 4-20mA isolated protection output, dual current output |
| ■ Communication interface | RS485(optional) |
| ■ Control interface | ON/OFF relay output contact |
| ■ Relay load | Maximum 240V 5A; Maximum I 15V 10A |
| ■ Relay delay | Adjustable |
| ■ Current output load | Max.750 Ω |
| ■ Insulation resistance | $\geq 20\text{M}$ |
| ■ Power supply | AC220V $\pm 22\text{V}$, 50Hz $\pm 1\text{Hz}$ |
| ■ Overall dimension | 96(length)x96(width)x110(depth)mm ;dimension of the hole: 92x92mm |
| ■ Weight | 0.6kg |
| ■ Working condition | ambient temperature:0~60 $^{\circ}\text{C}$, air relative humidity: $\leq 90\%$ |

Description ORP

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|--------------------------------------|--|
| ■ Measuring range | -1999~ +1999mV, Resolution: 1mV |
| ■ Accuracy | 1mV, $\pm 0.3^{\circ}\text{C}$, Stability: $\leq 3\text{mV}/24\text{h}$ |
| ■ ORP standard solution | 6.86,4.01 |
| ■ Control range | -1999~ +1999mV |
| ■ Automatic temperature compensation | 0~100 $^{\circ}\text{C}$ |
| ■ Manual temperature compensation | 0~80 $^{\circ}\text{C}$ |
| ■ Output signal | 4-20mA isolated protection output |
| ■ Communication interface | RS485(Optional) |
| ■ Output control mode | ON/OFF relay output contacts |
| ■ Relay load | Maximum 240V 5A; Maximum 115V 10A |
| ■ Relay delay | Adjustable |



- Current output load Max.750 Ω
- Signal impedance input $\geq 1 \times 10^{12} \Omega$
- Insulation resistance $\geq 20M$
- Working voltage 220V $\pm 22V$, 50Hz $\pm 0.5Hz$
- Working condition ambient temperature: 0~60 °C
Air relative : $\leq 90\%$

MDPH6081 Industrial PH&ORP Transmitter

ORDERING CODE	Example: MDPH6081	H	4	4	4	A	N	A	2	P	Note
Measurement Type											
P - PH transmitter											
O - ORP transmitter											
H - PH&ORP transmitter		H									
Process Connection											
4 - 3/4" NPT			4								
6 - 1" NPT											
8 - 1" BSP											
C - Customer											
Operating Pressure Range											
4 - 4 bar				4							
6 - 6 bar											
8 - 10 bar											
C - Customer											
Operating temperature											
4 - 60°C					4						
6 - 85°C											
8 - 95°C											
10 - 130°C											
C - Customer											
Output											
A - 2* 4 ... 20 mA output+1*multy function relay						A					
B - 2* 4 ... 20 mA output+2* relay											
C - Customer											
Communication											
N - None							N				
H - HART											
P - PROFIBUS PA											
F - FOUNDATION Fieldbus											
R - RS 485											
Power Supply											
A - 220VAC								A			
D - 24VDC											
C - Customer											
Conduit Entry Size											
2 - None									2		
4 - M20*1.5											
C - Customer											
Installation											
P - Panel mounting										P	
W - Wall mounting											
P - Pipe mounting											
Other											



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