

Industrial PH & ORP Transmitter

Model: MDPH5081

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 0.01pH
- ORP accuracy 1mV
- Measuring range -2 ... 16pH
- Best accuracy, reproducibility and long-term stability
- Local zero and span adjustments
- Automatic temperature compensation
- Intrinsically safe and explosion proof (option)
with HART, PROFIBUS PA, FOUNDATION Fieldbus (option)

Description

- | | |
|--------------------------------------|--|
| ■ Accuracy class | 0.01 pH - 1mV |
| ■ Accuracy stability | Accuracy will be held for the nominal range for a minimum of 1 years |
| ■ Measuring range | -2 ... 16 pH, ORP -2000 ... 2000mV |
| ■ Resolution | 0.01 pH, ORP 1mV |
| ■ Temp.resolution | 0.1 °C |
| ■ Temp.Accuracy | 0.2 °C |
| ■ Transfer function | Linear |
| ■ Response time | 0.1 second |
| ■ ORP/pH & Current output | Isolated 4 ... 20 mA output, max. load 500Ω |
| ■ Temp. Current output | Isolated 4 ... 20 mA output, max. load 500Ω |
| ■ Current output Accuracy | 0.05 mA |
| ■ Ambient temperature | 0 ... +70°C |
| ■ Storage temperature | -20 ... +70°C |
| ■ temperature coefficient | within range -20 to +90°C |
| ■ Communication | RS 485, HART, PROFIBUS PA, FOUNDATION Fieldbus |
| ■ Baud rate | 9600/19200/38400 |
| ■ Maximum relay contacts | 5 A/ 250VAC, 5 A 24VDC |
| ■ One multi function relay | Clean/period alarm/error alarm |





- **Cleaning setting** ON: 1 to 1,000 seconds of 0.1 ro 1,000 hours
- **Relay delay** 0 to 120 second
- **Data logging capacity** 500,000
- **Display** Backlight
- **protection** IP 65

MDPH5081 Industrial PH & ORP Transmitter

ORDERING CODE	Example: MDPH5081	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 - 1/2NPT									2		
4 - M20*1.5											
C - Customer											
Installation											
P - Panel mounting										P	
W - Wall mounting											
P - Pipe mounting											
Other											





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