

# 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

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



- **Cleaning setting**                    ON: 1 to 1,000 seconds of 0.1 to 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
<b>Measurement Type</b>											
P - PH transmitter											
O - ORP transmitter											
H - PH&ORP transmitter		H									
<b>Process Connection</b>											
4 - 3/4" NPT			4								
6 - 1" NPT											
8 - 1" BSP											
C - Customer											
<b>Operating Pressure Range</b>											
4 - 4 bar				4							
6 - 6 bar											
8 - 10 bar											
C - Customer											
<b>Operating temperature</b>											
4 - 60°C					4						
6 - 85°C											
8 - 95°C											
10 - 130°C											
C - Customer											
<b>Output</b>											
A - 2* 4 ... 20 mA output+1*multy function relay						A					
B - 2* 4 ... 20 mA output+2* relay											
C - Customer											
<b>Communication</b>											
N - None							N				
H - HART											
P - PROFIBUS PA											
F - FOUNDATION Fieldbus											
R - RS 485											
<b>Power Supply</b>											
A - 220VAC								A			
D - 24VDC											
C - Customer											
<b>Conduit Entry Size</b>											
2 - 1/2NPT									2		
4 - M20*1.5											
C - Customer											
<b>Installation</b>											
P - Panel mounting										P	
W - Wall mounting											
P - Pipe mounting											
Other											





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