



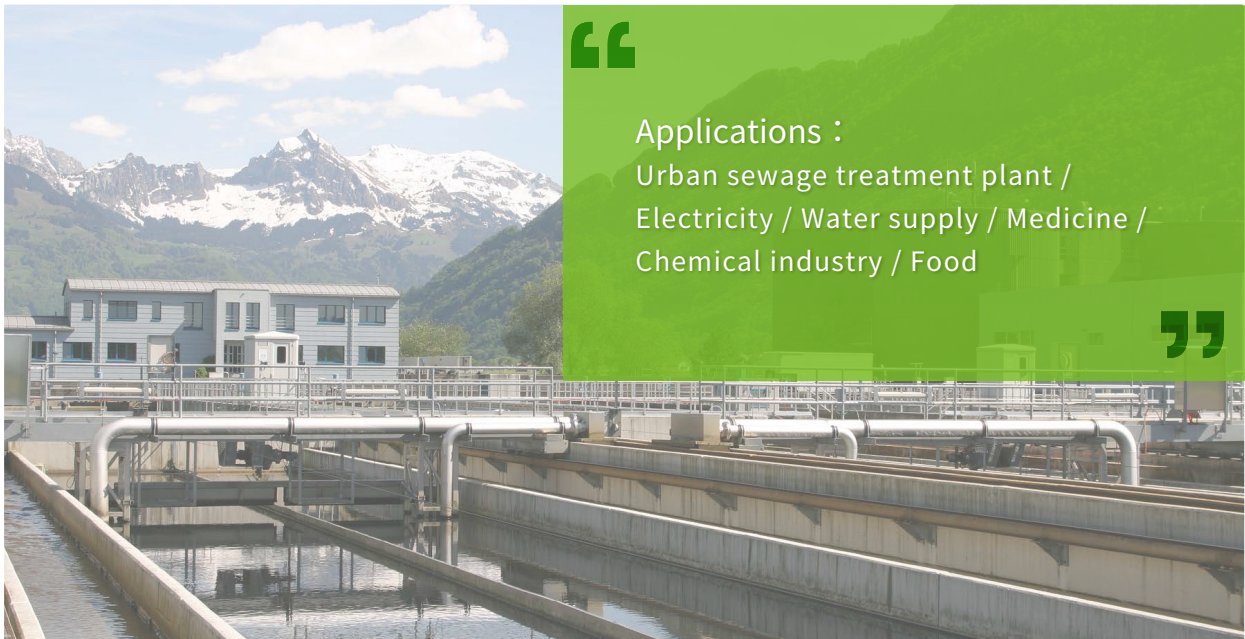
DPME01

| Features |

- IP65 ; Installation : Panel mounting
- English and Chinese operation interface, simple operation
- AC 220 V and DC 24 V power input
- Two 4 ... 20 mA outputs correspond to the pH / ORP setting and temperature
- Two sets of relays, high and low switching at will
- RS-485 (Modbus RTU agreement) functions (Optional)

| Introduction |

eYc DPME01 industrial grade online pH / ORP controller is a brand new pH / ORP controller. This is highly intelligent and flexible. It can measure pH / ORP and temperature at the same time and take continuous measurements.



Applications :

Urban sewage treatment plant /
Electricity / Water supply / Medicine /
Chemical industry / Food



| Specification |

| | |
|------------------|---|
| Measuring range | pH : 0 ... 14 pH ORP : -1999 ... +1999 mV Temp. : 0 ... 99°C |
| Resolution ratio | pH : 0.01 pH ORP : 1 mV Temp. : 0.1°C |
| Accuracy | pH : 0.01 pH ± 1 digit ORP : 0.1% ± 1 digit Temp. : 0.1°C ± 1 digit |
| Instrument size | 96x96x132 (HxWxD)(mm) |
| Cut-size | 92.5x92.5 (HxW)(mm) |

*Please make sure the product and the device which connect with RS-485 are on common ground, avoid damaged product.

| Industrial Grade Online pH & ORP Sensor |

Plastic shell pH electrode
(Colloidal electrolyte)



pH electrode resistant to organic solvent
(Colloidal electrolyte)



| | | |
|------------------------|------------------------------------|---|
| Measuring range | 2 ... 12 pH | 2 ... 12 pH |
| Temp. range | 0 ... 70°C | 0 ... 70°C |
| Pressure | Normal pressure | Normal pressure |
| Installation dimension | Up and down 3/4 NPT screw thread | Up and down 3/4 NPT screw thread |
| Material | PC | PTFE |
| Sheath | 0 ... 3 m submersible sheath (PVC) | 0 ... 3 m submersible sheath (PPR) |
| Application | pH measurement of sewage treatment | pH measurement of sewage treatment with organic solvent |

Special pH electrode for lime solution
(Colloidal electrolyte)



pH electrode resistant to hydrofluoric acid
(Colloidal electrolyte)



| | | |
|------------------------|---|---|
| Measuring range | 2 ... 12 pH | 2 ... 12 pH |
| Temp. range | 0 ... 70°C | 0 ... 70°C |
| Pressure | Normal pressure | Normal pressure |
| Installation dimension | Up and down 3/4 NPT screw thread | Up and down 3/4 NPT screw thread |
| Material | PC | PC |
| Sheath | 0 ... 3 m submersible sheath (PVC) | 0 ... 3 m submersible sheath (PVC) |
| Application | pH measurement of sewage treatment with lime slurry | pH measurement of sewage treatment with hydrofluoric acid |

Plastic shell ORP electrode
(Platinum ring)



ORP electrode resistant to organic solvent
(Platinum ring)



| | | |
|------------------------|---|--|
| Measuring range | -1999 mv ... 1999 mv | -1999 mv ... 1999 mv |
| Temp. range | 0 ... 70°C | 0 ... 70°C |
| Pressure | Normal pressure | Normal pressure |
| Installation dimension | Up and down 3/4 NPT screw thread | Up and down 3/4 NPT screw thread |
| Material | PC | PTFE |
| Sheath | 0 ... 3 m submersible sheath (PVC) | 0 ... 3 m submersible sheath (PPR) |
| Application | ORP measurement of general sewage treatment | ORP measurement of sewage treatment with organic solvent |

| pH / ORP Sensor Mounting Sheath |



Submersible sheath

| | |
|------------------------|--|
| Material | PVC (PPR is optional) |
| Temp. range | 0 ... 70°C |
| Pressure | Normal pressure |
| Installation dimension | 3/4 NPT screw thread |
| Optional size | 1 m / 2 m / 3 m |
| Application | Used for tank installation and measurement of plastic shell pH electrode |

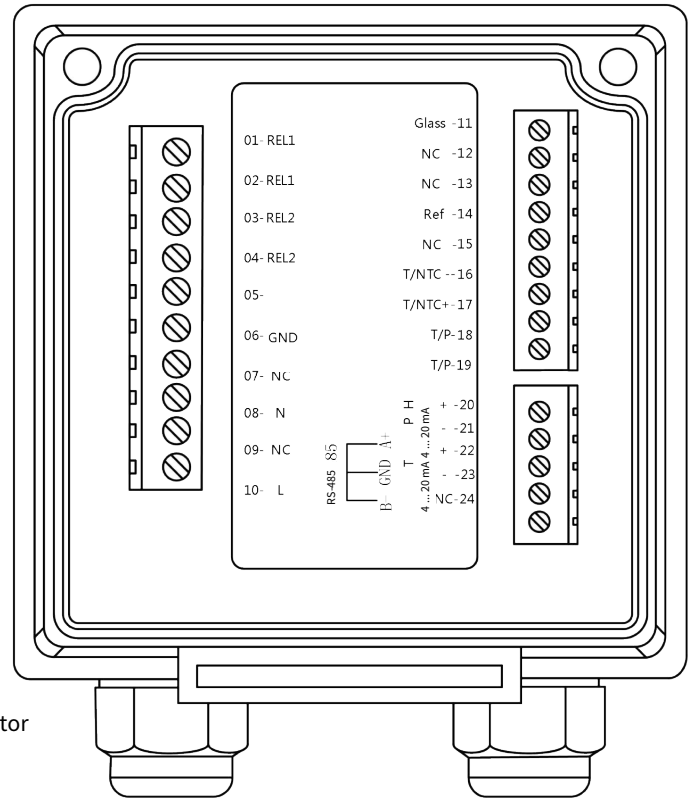


Circulation tank type installation sheath

| | |
|------------------------|--|
| Material | Acrylic |
| Temp. range | 0 ... 60°C |
| Pressure | Normal pressure |
| Installation dimension | 3/4 NPT screw thread |
| Application | Circulating (bypass) pH electrode installation |

| Diagram |

- 01 REL1 : First alarm control, external relay
- 02 REL1 : First alarm control, external relay
- 03 REL2 : Second alarm control, external relay
- 04 REL3 : Second alarm control, external relay
- 07 NC : NC
- 08 AC : AC power supply 220 V (N)
- 09 NC : NC
- 10 AC : AC power supply 220 V (L)
- 11 Glass : pH / ORP +
- 12 NC : NC
- 13 NC : NC
- 14 Ref : pH / ORP -
- 15 NC : NC
- 16 T / NTC : NTC10K temperature resistance interface 1
- 17 T / NTC : NTC10K temperature resistance interface 2
- 18 T / P : Pt1000 temperature resistance interface 1
- 19 T / P : Pt1000 temperature resistance interface 2
- 20 pH-ma(+) : pH / ORP current output positive end
- 21 pH-ma(-) : pH / ORP current output negative end
- 22 T-ma(+) : Temperature current output positive end/RS-485 A connector
- 23 T-ma(-) : Temperature current output negative end
- 24 NC : NC / RS-485 B connector



Note : This instrument supports two groups of 4 ... 20 mA or one group of 4 ... 20 mA and one group of RS-485

AC : 100 ... 240 V+10% 50/60 hz

Power : 5 W

Relay : Withstand voltage 240 V, maximum current 0.5 A

Output current : 500 Ω maximum resistance

| Ordering Guide |

DPME01 - **H1** **A** **0** **A**

pH or ORP electrode Sheath Output and communication Power supply

0 : 2 set 4 ... 20 mA
1 : 4 ... 20 mA+RS-485

A : AC 220 V
D : DC 24 V

A : Submersible sheath (for Plastic shell electrode), standard 1 m
B : Circulation tank type installation sheath, 3/4 NPT

- H1 : Plastic shell pH electrode (Colloidal electrolyte)
- H2 : pH electrode resistant to organic solvent (Colloidal electrolyte)
- H3 : Special pH electrode for lime solution (Colloidal electrolyte)
- H4 : pH electrode resistant to hydrofluoric acid (Colloidal electrolyte)
- R1 : Plastic shell ORP electrode (Platinum ring)
- R2 : ORP electrode resistant to organic solvent (Platinum ring)

Standard type contains : Submersible electrode sheath : 1 m / Cable : 10 m