HD-200FL

(4-Wire Transmitter)







HD-480 (4-Wire Transmitter)









ations	
Optical (fluorescent)	
DO: 0 to 20 mg/L Resolution: 0.01 mg/L Saturation: 0 to 200% Resolution: 0.1% Temperature: 0 to 50°C Resolution: 0.1°C	
±1% of full scale	
±2% of full scale	
Two points 4 to 20 mA DC $$ output isolated type $$ Maximum load resistance 900Ω Range 1: DO concentration: Freely selectable within the measurement range Range 2: Temperature: Freely selectable within the range from -10.0 to 110.0°C Alarm: Burnout function (3.8 mA or 21 mA) Hold: Selectable from previous value hold, optional value hold	
Three points Dry contact output Relay contact, SPDT (1c) Signal R1, R2: upper limit alarm, lower limit alarm, hold, Cleaning (selectable) FAL: Alarm Control operation Control width: 0.02 to 4.00 mg/L (±0.01 to ±2.00 mg/L)	
RS-485 Two wire systems, Input/output isolated type (not isolated from transmission output)	
0 to 50°C	
Calibration error, sensor diagnosis error, converter alarm	
-20 to 55°C (Should not be frozen)	
100 to 240 V AC 50/60 Hz 15 VA (max.)	
IP65 : 50 A pole or wall mounting Case: Aluminum alloy Mounting brackets, hood: SUS304	
D0-2000	
Main unit body: Approx. 3.5 kg Hood, mounting brackets: Approx. 1 kg	
CE marking, FCC rules	

HD-480 Specifications			
Measuring method	Galvanic cell method		
Measuring range	Dissolved oxygen: 0 to 20 mg/L Saturation ratio: 0 to 200% Temperature: 0 to 40°C	Resolution: 0.01 mg/L Resolution: 1% Resolution: 0.1°C	
Repeatability	Dissolved oxygen: ±0.5% full-scale or less	(for equivalent input)	
Linearity	Dissolved oxygen: ±0.5% full-scale or less	(for equivalent input)	
Transmission output	4 to 20 mA DC Input/output isolated type	Maximum load resistance 900 Ω	
Transmission output range	Freely settable within measuring range		
Contact output	No. of outputs: Two points (R1, R2) Contact format: Relay contact SPDT (1c) Contact capacity: 240 V AC 3 A, 30 V DC 3 A (resistance load) Contact function: Selectable from upper, lower limit operation (ON/OFF control) and malfunction alarm, maintenance operation, temperature		
Calibration function	Atmospheric calibration or saturated liquid of Salinity correction (0.0 to 5.0%) Temperature calibration (2 points)	calibration	
Self-diagnosis function	Calibration failure (zero error, sensitivity error) Sensor diagnosis (temperature sensor short-circuit, temperature sensor disconnection) Outside measuring range Analyzer malfunction		
Power supply	100 to 240 V AC 50/60 Hz 10 VA (max.)		
Temperature compensation range	0 to 40°C		
Ambient temperature	-5 to 45°C		
Compatible sensor	Sensor: 5405, Probe: DP-100		
Weight	Approx. 400 g		
Regulatory certification	CE marking, FCC rules		

5405 Cartridge replacement disposable type

Possible

50 µm

90% response 120 sec. or less

Temperature: 0 to 40°C

Pressure: 0 to 0.1 MPa

(DO measurement is possible to a maximum depth of 10 m.)

Flow velocity: 25 cm/sec. or more

DP-100

<u>Sensor</u>



Specifications

•	
Model	DO-2000
Sensor cap	5700A
Measurement sample temperature	0 to 50°C
Measurement depth	10 m
Wetted material	SUS316, NBR, PVC
Weight	Approx. 3.0 kg (including 10 m cable)

Holder

- Immersion type holder DH-101 series (insertion type) NH-10 series (drop-in type)
- Flow type holder DF-30 series

Cleaner

- Immersion type jet cleaner JDH series
- Flow type jet cleaner
 JDF series
- Ultrasonic cleaner UH / UDH series



Intermittent cleaning by air jet cleaner



Continuous cleaning by ultrasonic cleaner

Film material Combined probe

Probe

Sensor

Construction
Cleaner combination

Film thickness

Responsiveness (for same measurement conditions)

Measurement solution conditions

Specifications Model



[Immersion type probe]

Directly immerse the probe in the measurement solution during use. No special installation work is required. Immersion type holders / flow type holders are available according to the application.

Cleaner

• Water/air jet Cleaner Flow type JDF-30



 Water/air jet Cleaner Immersion type
 JDH-10



[Disposable type sensor]

longer necessary and anyone

replacement. In addition,

disposable type sensors

deliver high quality and low

can easily perform

The film recovering work required when renewing conventional electrodes is no

Accessories

• DO sensor extensive cable C-7E



• Relay box CT-50D0

