

製品名 形式	工業用導電率計	シヨウショ  製品仕様書（英文）
	HE-480H	

頁	変更内容	変更日	作成	承認
A	適合センサ（FES-12*F）型式追加	2006.07.26	ムカミ	ヌギ
B	CE マーキング 変更	2009.1.22	M.Hayashi	O.Takiguchi

備考	
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検認	フジ	2005.05.30	P 401686
照査	フジ	2005.05.30	
作成	ムカミ	2005.05.30	

## Specifications

Product name	Industrial conductivity meter			
Model	HE-480H			
Measurement method	Electrode type (4-electrode method)			
Cell constant	1.0/cm			
Measuring range	Measurement range (S/m)	0.000 to 2.000	0.00 to 20.00	0.00 to 50.00
	Measurement range (mS/cm)	0.00 to 20.00	0.0 to 200.0	0.0 to 500.0
	Seawater salinity conversion value (%)	0.00 to 4.00		
	NaCl salinity conversion value (%)	0.0 to 20.0		
	0°C to 100°C (The displayed decimal place is selectable among 0, 1, and 2.)			
Repeatability Within	Conductivity display	Within $\pm 0.5\%$ of the full scale		(in equivalent input)
	Salinity conversion display	Within $\pm 1\%$ of the full scale		
Linearity Within	Conductivity display	Within $\pm 0.5\%$ of the full scale		(in equivalent input)
	Salinity conversion display	Within $\pm 1\%$ of the full scale		
Transmission output	4 mA to 20 mA DC: input/output isolated type Maximum load resistance: 900 $\Omega$ Transmission output range: Freely selectable within the measurement range			
Contact output	Outputs: 2 points Alarm contact output (R1 and R2) Contact type: relay contact, SPDT (1c) Contact rating: 240 V AC, 3 A and 30 V DC, 3 A (resistance load) Contact function: selectable from upper/lower limit operation (ON/OFF control), alarm, and maintenance.			
Calibration function	Conductivity: Based on the specified compensation coefficient for the cell constant (parameter input) Temperature: Calibrated by comparing with the reference thermometer			
Transmission output hold feature	<ul style="list-style-type: none"> <li>Previous value hold</li> <li>Optional value hold</li> <li>Continuous</li> </ul> Selectable from the above (However, only the previous value hold is available in the maintenance Mode.)			
Self-diagnosis function	<ul style="list-style-type: none"> <li>Sensor diagnosis               <ul style="list-style-type: none"> <li>Short-circuit and disconnection of the temperature sensor</li> </ul> </li> <li>Out of the measurement range</li> <li>A/D converter scale over</li> <li>Converter error</li> </ul>			
Temperature compensation	<ul style="list-style-type: none"> <li>Temperature characteristics of NaCl</li> <li>Freely selectable reference temperature and temperature coefficient</li> </ul>			
		Measurement range	Reference temperature	Temperature coefficient
		0.000 S/m to 2.000 S/m (0.00 mS/cm to 20.00 mS/cm)	5°C to 95°C	$\pm 5\%/^{\circ}\text{C}$
		0.00 S/m to 20.00 S/m (0.0 mS/cm to 200.0 mS/cm)	25°C	$\pm 3.5\%/^{\circ}\text{C}$
		0.00 S/m to 50.00 S/m (0.0 mS/cm to 500.0 mS/cm)	No temperature compensation	
	<ul style="list-style-type: none"> <li>No temperature compensation</li> </ul>			
Temperature-compensated range	0°C to 100°C			

Ambient temperature	-5°C to 45°C	
Relative humidity	20% to 85% (without dew condensation)	
Storage temperature	-25°C to 65°C	
Power supply	Rated voltage 100 V to 240 V AC, 50/60 Hz, 10 VA (max.)	
Structure	Indoor-use panel installation type Panel case: ABS, Terminal: PBT Panel: IP65 dust and water proof structure	
Protective structure	Panel: IP65 (IEC60529, JIS C0920) Rear case: IP20, Terminal:IP00 Class II device (IEC61010-1) Pollution level 2 (IEC61010-1)	
Conforming standards	CE Marking	EMC Directives (2004/108/EC) EN61326-1:2006 Low Voltage Directive(2006/95/EC) EN61010-1:2001
	FCC Rule	FCC Part15
External dimensions	48(W) mm x 96 (H) mm x 115 (D) mm Case depth: approx. 105 mm (when panel-mounted)	
Mass	Approx. 400 g	
Compatible sensors	FES series conductivity sensor, cell constant 100/m (1.0/cm) (The measurement range differs depending on the sensor model.)	

**\* Sensors and measurement ranges**

Sensor model		FES-125/125F	FES-126/126F
Measurement range	0.000 S/m to 2.000 S/m (0.00 mS/cm to 20.00 mS/cm)	✓	✓
	0.00 S/m to 20.00 S/m (0.0 mS/cm to 200.0 mS/cm)	✓	✓
	0.00 S/m to 50.00 S/m (0.0 mS/cm to 500.0 mS/cm)	✓	✓
Seawater salinity conversion value	0.00% to 4.00%	✓	✓
NaCl salinity conversion value	0.0% to 20.0%	✓	✓
Temperature	0°C to 50°C	✓	✓
	0°C to 100°C		✓