HORIBAAdvancedTechno

2-Channel Conductivity Meter HE-960CW





Optimum for Continuous measurement of pure water and boiler water

The HE-960CW is a 2-channel simultaneous measurement resistivity meter that can be connected with two sensors. While maintaining advanced functionality and accuracy, this single converter allows simultaneous measurement and output of the conductivities of two locations, thereby contributing to the achievement of overall cost reductions.

2-Channel Simultaneous Measurement & Simultaneous Output



Features

•2-channel simultaneous measurement

The HE-960CW employs independent internal circuits for connecting two sensors to a single converter, allowing two independent conductivity measurements as well as the calculation and output of the desalination rate and conductivity differentials for two separate locations.

●2-channel simultaneous output

The HE-960CW includes 4 transmission output circuits built-in, so both the conductivity and temperature data for 2 different locations can be output. The transmission output range can also be set for a selected scale within the range of measurement.

(Repeatability and linearity, however, will remain accurate to the separately set measuring range.)

Communication device ability (RS-485)

HE-960CW is equipped with an RS-485 interface to allow you to check measurements and check/change the set points by communication.

Converter

•Four contact alarms

Four integrated contacts are available as alarm output. Upper and lower conductivity limits and equipment failure alarms can be assigned to each channel. Moreover, contact response delay time can be set as well.

Icon-based status display & security function

Instrument status on the HE-960CW is indicated through an easy-to-understand icon display that eliminates operational errors. And, by setting a passcode, all key operation can be locked to prevent measurement errors caused by inadvertent operation.

CE Marking compliant

🔊 The HE-960CW is also an environmentally-friendly product that uses lead-free solder for mounting chips on the PCB.



Specifications (Converter)

Model	HE-960CW						
Measurement method	2-electrode method						
Sensor input	2-channel(for concurrent measurement with sensors isolated each other)						
Temperature sensor specifications	Platinum resistance 1000Ω/0°C						
Measuring range	Cell constant	(/cm)	0.01	0.1	1 10		
	Conductivity	US/cm	2 000/20 00	20.00/20	20.00/200.0 200.0/200		
	oonddonny	mS/m	0.2000/2.000	2 000/20	0 00 20 00/200 0		
	TDS conversion	ma/l	2 000/20 00	20.00/20	200 0/2000		
	Temperature : 0°C	Temperature : 0°C to 100°C (Select your desired decimal point from 0_1_and 2 digits)					
	Desalination rate : 0.0% to 100%						
	Conductivity difference: Depends on measurement range of sensor 2 (CH2)						
Beneatability	Conductivity display : Within ±0.5% of the full scale						
ricpediability	TDS display : Within±1.5% of the full scale						
Linearity	Conductivity display : Within ±0.5% of the full scale (in equivalent input						
Linounty	TDS display : Within±1.5% of the full scale						
Transmission output	nsmission output Number of outputs : 4						
inanomicelen capat	4mA to 20mA DC/0mA to 20mA DC : input/output isolated type						
	Maximum load resistance : 900Ω						
	Transmission output range : Freely selectable within the measurement range						
	However, repeatability and linearity will remain accurate to the separately set measuring range.						
	(inegative terminals of each transmission output channel are connected inside and thus have						
Contract autout	Ine same electric potential.)						
Contact output	Alarm contact output (B1 B2 B3 B4)						
	Contact type : relay contact. R1. R2. R3 : SPST						
	R4 : SPDT						
	Contact rating : 240V AC 3A and 30V DC, 3A(resistance load)						
	Contact function : selectable from upper/lower limit action (ON/OFF control),						
	delay, and hysteresis						
	Output contents : selectable from the selected measurement, USP assessme						
	anomaly alarm, and maintenance.						
Communication output	[[[[[[[[[[[[[[[[[[[
Collibration function	Conductivity Decedentity and the encodient contraction coefficient for the college test						
Calibration function	(narameter input)						
	Temperature · Calibrated by comparing with the reference thermometer						
	TDS: Conversion using a user-defined coefficient value(0.30 to 1.00)						
Transmission output hold	Selectable from the Previous value hold and the Optional value hold.						
feature	(However, only the previous value hold is available in the maintenance mode.)						
Self-diagnosis function	·Sensor diagnosis (Short-circuit and disconnection of the temperature sensor)						
	•Out of the measurement range •A/D converter scale over •Converter error						
Temperature compensation	 Temperature characteristic of NaCI (reference temperature : 5°C to 95°C) 						
	Arbitrary temperature coefficient entry						
	(reference temperature : 5°C to 95°C, temperature coefficient : ±5%/ °C)						
	(In the deionized water area, however, the temperature compensation for deionized						
	Compensation settings)						
Temperature compensation range							
Ambient environment	U C 10 100 C						
Power supply	$100/1$ to $240/140 \pm 10\%$ 50 km 50 km 20/60 Hz $25/4$ (max)						
Protective structure	Panal: IP65, Rear case: IP20, Terminal: IP00 (Indeor-use nanal installation type)						
Mass							
Conforming standards	Approx. 300g						
sumarus	UE Marking, FCC Part15						



Converter HE-960CW



118 (min.)

Conductivity sensor **ESH Series**



Flow Type Holder EFA-30/31 Series

ESH-1







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connector

Please read the operation manual before using this product to assure safe and proper handling of the product.

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