HORIBAAdvancedTechno

For Semiconductor Chemical Rinsing Process

Carbon Sensor Resistivity Meter HE-960R-GC

Applicable to Single-Bath Cleaning systems Glass Carbon Sensor offers superior Resistance to Chemicals

The HE-960R-GC is resistivity meter to use glass carbon for its sensor.

A glass carbon sensor is not contaminated by metal elution and is chemically resistant to such wet cleaning solutions as hydrofluoric acid and hydrogen peroxide. This is especially effective for resistivity measurement in the rinse process of single-bath cleaning systems and it enables high quality control in the cleaning process.

Features

Superior chemical resistance

Because the electrode material is 100% carbon, the HE-960R-GC's sensor exhibits superior chemical resistance to various cleaning solutions, starting with hydrofluoric acid and hydrogen peroxide.

Free form metal contamination

With the HE-960R-GC, there is no more worry of the metal contamination that was unavoidable with conventional metal electrodes. The carbon surface of its sensor is specially processed so that particle elution is extremely minuscule.

High-speed response

Due to its specially processed carbon surface, the response of the HE-960R-GC's sensor between chemical solutions and ultra-pure water is equivalent to conventional products.

•Selectable temperature compensation function

The HE-960R-GC offers selection of the desired setting between "Pure Water" and "Ultra-Pure Water + Impurities", allowing the implementation of temperature compensation that is most appropriate to the measured liquid.

- Icon-based status display & security function Instrument status on the HE-960R-GC 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.
- •DC 24 V power source
- CE Marking compliant

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



World's First A Chemical-resistant

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ass Carbon Sensor





Specifications

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Model	HE-960R-GC						
Measurement method	2-electrode method						
Sensor input	1-channel						
Cell constant	Approx.0.1/cm						
Temperature sensor specifications	Platinum resistance 1000Ω /0°C						
Measuring range	Measurement	kΩ·m	0 to 2.00	0 to 20.00	0 to 200.	0 0 to	1000*
	unit	MΩ·cm	0 to 0.200	0 to 2.00	0 to 20.0	0 0 to	100.0*
	* : Measurable without temperature compensation Temperature : 0°C to 100°C (Select your desired decimal point from 0, 1, and 2 dig						
Repeatability	Within ±0.5% of the full scale (in equivalent input)						
Linearity	Within ±0.5% of the full scale(in equivalent input)						
Transmission output	4 to 20mA DC : input/output isolated type						
	Maximum load resistance : 900Ω						
	Transmission output range : Freely selectable within the measurement range						
Contact output	Outputs : 2 points						
	Alarm contact output (R1,R2)						
	Contact type : relay contact, SPDT						
	Contact rating : 240V AC 3A and 30V DC, 3A(resistance load)						
	Contact function : selectable from upper/lower limit operation (ON/OFF control),						
	alarm, and maintenance.						
Calibration function	Specific resistance : Based on the specified compensation coefficient for the cell constant						
	(parameter input)						
	Temperature : Calibrated by comparing with the reference thermometer						
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)						
T	•Out of the measurement range •Converter error						
Temperature compensation	· Based on the temperature characteristics of extra deionized water						
	(reference temperature : 25°C)						
	 Based on the reference temperature and user-defined temperature coefficient (reference temperature:5°C to 95°C) 						
Townshing composed in some							
Temperature compensation range		110	10.00/ata	n al a sud \ 10 10	10.04	0.1	
Olira-pure water	weasurement	MO·cm	18.23(Sta	ndard), 18.18,	100.4	Select Irc	om options
Clipping function	When the mean		182.3(Sta	ndard), 181.8,	182.4	t rongo do	rived from
Clipping function	when the measured value is above the upper limit of the measurement range						
Ambient environment	The specified specific resistance, the specified resistance is used as the measured value.						
Power supply	241/ DC 5W(max)						
Protective structure	Panal: IP65, Bear case: IP20, Terminal: IP00 (Indoor-use panal installation type)						
Mass							
Conforming standards	CE Marking ECC Part15						
Compatible sensor	ERE_series specific resistance GC(Glass carbon) sensor cell constant 0.1/cm						
Compatible Sensor	בווו - שבוובי שבנווני ובאוגומונים מטומאג כמושטוון צבווגטו, כבוו כטווגומוו ט. ו/כוו						





External dimensions Unit: mm (in)

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

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