SPECIFICATION SHEET



pH DETECTOR FOR PURE WATER

HC-G65

This product is a micro-flow-rate-type pH detector suitable for measuring the pH of pure water or boiler water, etc. with low electrical conductivity (0.01mS/m or more).

The applicable pH electrode is GSS-314P with replaceable tips (glass electrode and reference electrode liquid junction).

More accurate and stable measurement is enabled by immersing the reference electrode liquid junction in the KCI reservoir of measurement cell and providing a constant and small flow of the sample water (30-200mL/min).

It is effective even for boiler water that is affected by the boiler compound (reducing agent).

The beaker stand (for standard solution calibration) is attached.



Standard Specifications

Product name Model	: pH detector for pure water : HC-G65
Measurement range	•
Applicable electrode	: GSS-314P
Sample water	: Electrical conductivity
conditions	0.01mS/m (0.1µS/cm) or more
	Temperature 0–50°C
	Flow rate
	Constant flow rate within a range
	of 30–200mL/min
	Pressure Inlet pressure; 50kPa or less
	Outlet pressure; Air open
	(no back pressure)
Connecting port	: Rc1/4 (for both inlet and outlet of sample water)

KCI tank capacity	: 100mL
Ambient temperature	e : 0–50°C, 90%RH or less
/ humidity	
Weight	: Approx. 4.5kg
Dimensions	: 221(W) x 110(D) x 400(H)mm
Mounting	: Rack or wall mount
	50A pole mount (option)
Materials	: Case Acid proof painting on SPCC
	Measurement cell Acrylic resin
	Piping tube Polyethylene
Construction	: Simplified rainproof type (for indoor
	installation)
Color	: Metallic silver



<Example of 2-wire pH measurement system>



Note 1:

Provide sample water with a constant flow within a range of 30–200mL/min.

Note 2:

The applicable transmitter is HDM-135A/136A or HBM-100A/160.

The pH temperature characteristics of pure water or boiler water can be automatically compensated.

(Temperature coefficient setting range

: -0.100- +0.100pH/°C)

Standard included accessories

 Instruction manual (one copy)
 Filling solution KCI-3.3NC
 500mL, with crane neck
 Code No. RE-4C





<In standard solution calibration>



• Outdoor type, equipped with a flow meter and flow control valve... full option specifications







- *1. With the case and door closed using a rubber packing seal, the door can then be opened and closed by setting or removing the stainless-steel catch clip.
 *2. The compact flow meter (set to 100mL/min) is attached to the sample water port on the bottom
- of case.
 - The sample water port is connected to the IN side (Rc1/4) of the flow meter.
- *3. The stainless-steel needle valve is attached to the sample water port on the bottom of the case or to the IN side of the compact flow meter if it is set.
 - The sample water port is connected to the IN side (Rc1/4) of the needle valve.

■ Replaceable Tip pH Electrode: GSS-314P

Measurement range	I:pH0–14	
Wetted part materials	: Glass, ceramics, titanium, PPS resin, epoxy resin, fluororubber	
Lead	: Material Heat-resistant PVC Outside diameter ø7.5	Liquid Junction
	Length 2m or 5m	
Internal electrode	: Silver/silver chloride (Ag/AgCl)	
Temperature measuri	ng : Pt1000	
element		*
Weight	: Approx. 570g (lead 2m)	
Filling solution	: 3.3 mole KCl solution	Glass electrode



Glass Electrode and Consumable

Product name	Model
Glass electrode	HGS-300
Liquid Junction	JC-300P
Filling solution 500mL	RE-4C

pH calibration kit	pН	ca	ibration	kit
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• For pure water measurement: Code No. 7420750K

Item No.	Code No.	Part name	Quantity	Remarks
1	136C035	Beaker (made with PE)	3P	For 500mL
2	143F191	pH4.01 standard solution	1P	500mL
3	143F192	pH6.86 standard solution	1P	500mL
4	143F193	pH9.18 standard solution	1P	500mL
5	143F060	Powder for pH4.01 standard solution	1P	5 bags (one bag is for 500mL)
6	143F061	Powder for pH6.86 standard solution	1P	5 bags (one bag is for 500mL)
7	143F062	Powder for pH9.18 standard solution	1P	5 bags (one bag is for 500mL)

• For boiler water measurement: pH calibration 7-9 kit Code No. 6531690K

Applicable pH analyzer/transmitter



- Power supply: 2-wire system, 24V DC
- Automatic judgment of the normality of electrode properties
- Measurement range: pH -1-14



- Free setting of transmission output range (4–20mA DC)
- Equipped with upper-limit and lower-limit alarm contact (4 alarm points possible)
- RS-232 installable (option)
- Power supply: 100–240V AC automatic voltage regulation
- Measurement range: pH -1–15



Measurement range: pH -1–14



- RS-232 installable (option)
- Power supply: 100–240V AC automatic voltage regulation
- Measurement range: pH -1–15



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Please read the operation manual carefully before using producuts.

http://www.toadkk.co.jp/english

Information and specifications are subject to change without nofice.