

GSS/PSS/ASS Series

**Exchangeable chip type
Industrial pH/ORP electrode
(detector)**

Easy maintenance! Save on running costs



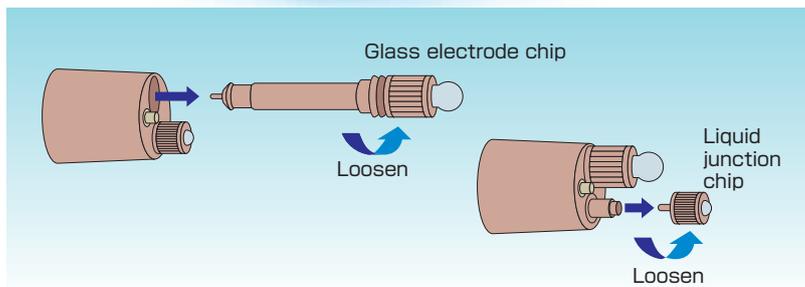
The exchangeable electrode chip improves maintenance efficiency.



Easy maintenance

This electrode chip can be exchanged, thus eliminating the need to remove the electrode leads from the converter.

For KCl non-refilling type detectors, there is no need to replenish inner solution for a long period.

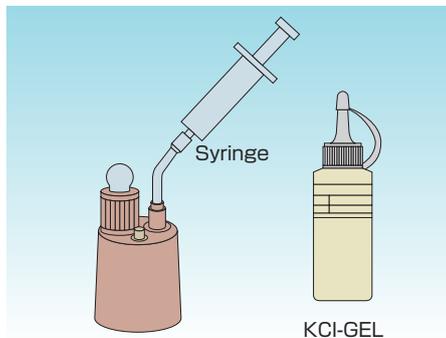


Save on running costs

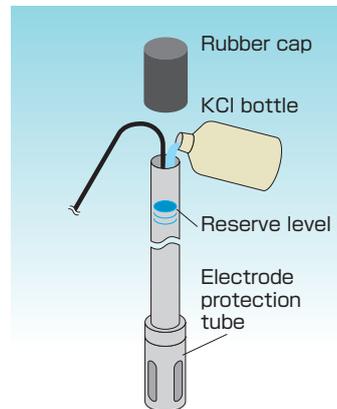
Various types of electrode chips and liquid junction chips can be exchanged individually.

Robust structure

The electrode body is made from polyphenylene sulfide resin (Ryton), which provides excellent heat resistance, chemical resistance, and pressure resistance.



Solution gels can be replaced in the KCl non-refilling type detector, enabling the electrode to be used longer.



The HC-G70 immersion-type holder can contain a large volume of KCl solution.

Exchangeable chip type electrode

Type		Usage		Model	Sample water conditions			
					Measurement range	Temperature*1	Pressure*2	Electrical conductivity
pH	KCl non-refilling type	Waste water treatment	For general use	GSS-304B	0 to 14pH	-5 to 80°C	0 to 0.5MPa	Not less than 1000μS/cm
			For strong alkali	GSS-304A				
			For hydrofluoric acid resistance	GSS-304F				
	KCl refilling type	Process	For general use	GSS-314B	0 to 14pH	-5 to 100°C	0 to 0.3MPa	Not less than 100μS/cm
For strong alkali			GSS-314A					
For hydrofluoric acid resistance			GSS-314F					
ORP	KCl non-refilling type	For general use (Pt)		PSS-304B	±2000mV	-5 to 80°C	0 to 0.5MPa	Not less than 1000μS/cm
			For sewage/human waste (Au)	ASS-304B				
	KCl refilling type	For general use (Pt)		PSS-314B				
			For sewage/human waste (Au)	ASS-314B				

*1 No freezing *2 Depends on combined holder

Spares

Product Name	Usage	Model
pH electrode (glass) chip	For general use	HGS-300*3
	For strong alkali	HGS-300A
	For hydrofluoric acid resistance	HGS-300F
ORP electrode (Pt) chip	For general use	HP-300
ORP electrode (Au) chip	For sewage/ human waste	HA-300
Liquid junction chip	For general use	JC-300
	For low electrical conductivity	JC-300K*4
Internal liquid of comparison electrode RE-4 KCl 500 mL	KCl refilling type	143F234
Saturated KCl gel 100mL	KCl non-refilling type	KCL-GEL

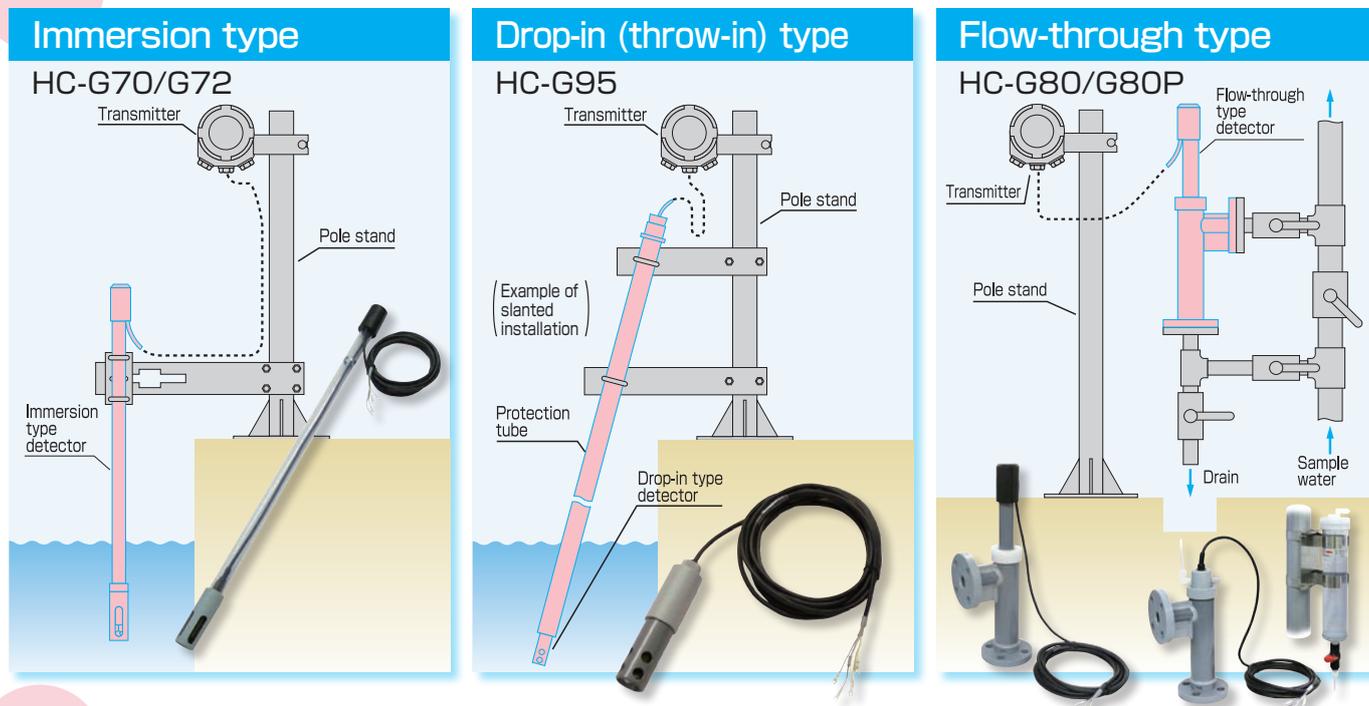
*3 Measurement Law Model Approval Number:SO09

*4 Not possible for KCl non-refilling type

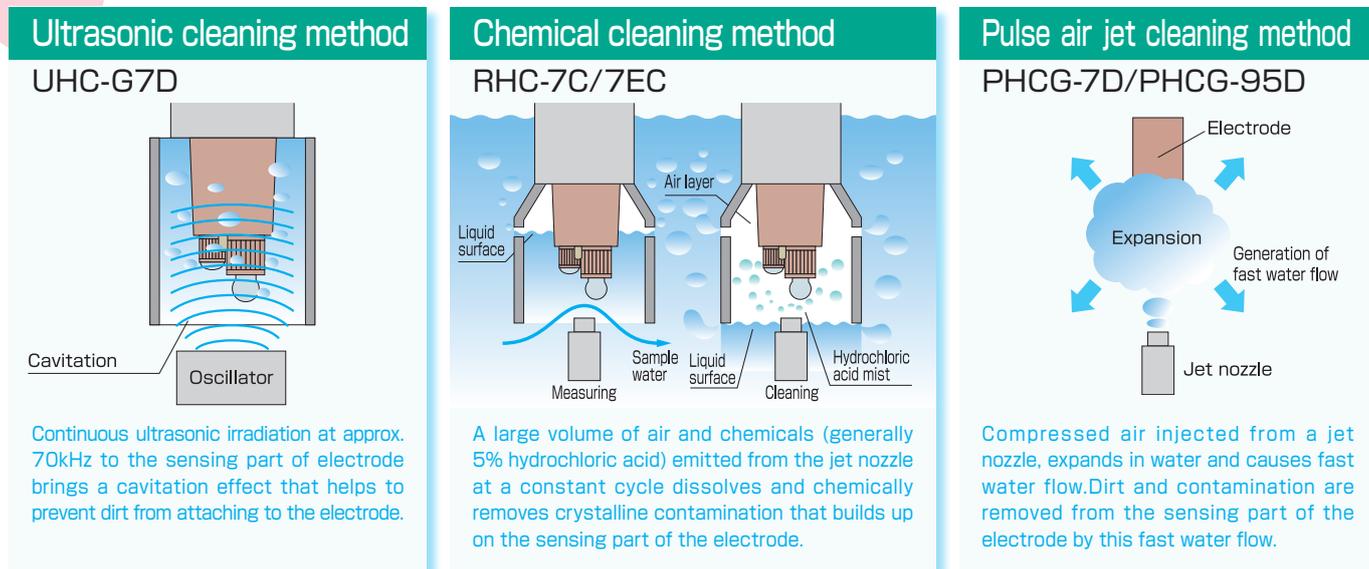


Various electrode holders and cleaners are available for wide range of applications

Electrode holder



Cleaner



Electrode holder and cleaner

Type	Model	Materials	Remarks
Immersion-type holder (resin)	HC-G70	Transparent PVC, or PP	Length : 3 m max.
Immersion-type holder (stainless-steel)	HC-G72	SUS316	Length : 3 m max. ; KCl non-refilling type only
Drop-in (throw-in) type detector	HC-G95	PVC, SUS304	For deep structures of 2 m or more; KCl non-refilling type only
Flow-through type holder (non-pressurized)	HC-G80	PVC or PP	KCl non-refilling type only(also for stainless steel)
Flow-through type holder (Pressurized)	HC-G80P	PVC or PP	KCl refilling and pressurized type(also for stainless steel)
Immersion-type holder with ultrasonic cleaning	UHC-G7D	PVC, SUS316	Length : 3 m max.
Immersion-type holder with chemical cleaning	RHC-7C	PVC, SUS316	Length : 3 m max.
Immersion-type holder with chemical cleaning (HBM type)	RHC-7EC	PVC, SUS316	Length : 3 m max.
Immersion-type holder with pulse air jet cleaning	PHCG-7D	PVC, SUS316	Length : 3 m max.
Drop-in type detector with pulse air jet cleaning	PHCG-95D	PVC, SUS304/316	For deep structures of 2 m or more; KCl non-refilling type only

* For detailed specifications, see the individual specification sheets.

A pH detector for pure water measurement that uses a chip-exchangeable electrode is available.

PH detector for pure water (boiler water) measurement

HC-G65



- The pH of pure water is measured by the trace flow cell method.
- The combination pH electrode is a exchangeable chip type(KCl refill type) GSS-314P type.

A dedicated built-in model BPC-G65 for boiler sampling systems is also available.

Exchangeable chip type electrode
GSS-314P

Selection for combination of pH/ORP transmitter

Field installation type

Simple function,
easy operation

HDM-135A(pH) / 137A(ORP)
Two wire, 24V DC

HDM-136A(pH) / 138A(ORP)
Four wire, 100V to 120V AC or
200V to 240V AC
Free power supply



Highly expandable
intelligent type

HBM-160B(pH) / 162B(ORP)
Four wire, 100V to 240V AC
Free power supply

Display with LED backlight
With 2 alarm outputs



Panel installation type

Compact DIN96 size

HBM-100B(pH) / 102B(ORP)
100V to 240V AC
Free power supply

Display with LED backlight
With 2 alarm outputs



*For detailed specifications, see the individual specification sheets.

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CAUTION

Please read the operation manual carefully before using products.

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Specifications and prices are subject to change without notice.