Model	Features	Image
CS1556	**Steam Sterilization /135℃** Fermentation, biotechnology, pharmaceutical, food and beverage industries.	
CS1555	Chemical process, strong acids and alkalis	
CS1550	Low conductivity water: pure water, boiler water, tap water, drinking water	
CS1551	Low conductivity water: pure water, boiler water, tap water, drinking water High durability, reliability	
CS1554	General purpose	
CS1548-1312	Tap Water, sewage & wastewater treatment	
CD1254	pH ORP dual output, general purpose	
CS1540	Surface water, river water, aquaculture, with stainless steel shell	
CS1543	Tap water, surface water, waste water,High durability	
CS1528	HF(Hydrofluoric acid) containing media	
CS1529	Seawater, sulfide/ fluoride related media	
CS1668	**SNEX is for tough situations:** Sludge, viscous fluids, protein, hydrogen sulfide, cyanide, seawater, brine, mining, petrochemical process.	
CS1754	General purpose, with SNEX solid-state polymer electrolyte reference system.	
CS1769	**In-Line Max. Pressure to 20 bar (atm)/300 psig,** with SNEX solid liquid junction.	
CS1768	**SNEX is for tough situations:** Sludge, viscous fluids, protein, hydrogen sulfide, cyanide, seawater, brine, mining, petrochemical process.	
CS1778	**SNEX is for tough situations:** Exhaust gas desulfurization & denitrification process, scrubber	
CS1753	Economical process pH sensor, built-in temperature sensor	
CS1733	Economical process pH sensor	

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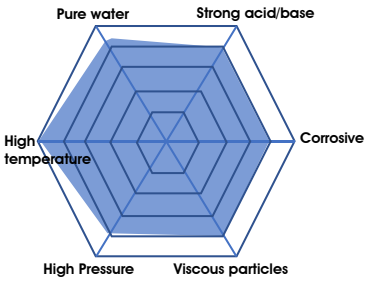
pH ● ORP ○ Ref ● °C ○ Digital ○



CS1556 Performance Chart

Steam Sterilization /135℃

Applications:
Fermentation, biotechnology, pharmaceutical, food and beverage industries.

CS1556 pH Sensor

Specifications	
pH range	0~13
Zero point (pH)	7.00 ± 0.1
Operation temp.	0 ~ 140 °C
Max. Pressure	7 bar (atm)
Output	mV
Shell material	Glass
pH bulb	Low impedance blue plus
Resistance	<150 MΩ
Reference system	Ag/AgCl/KCl
Electrolyte	SNEX solid-state polymer
Junction	Double
Liquid Junction	Circular porosity ceramic
Temp. sensor	None (optional)
Connector	S8
Thread	PG13.5
Cable Length	Coaxial cable 1m (extendable)
Cable termination	Terminal (Terminal or BNC)

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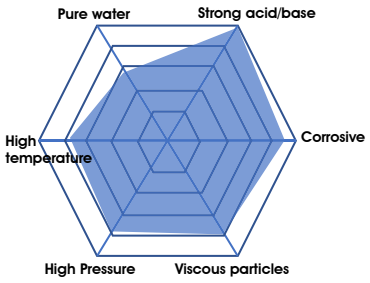
pH ● ORP ○ Ref ● °C ○ Digital ○

Applications:
Chemical process, strong acids and alkalis

CS1555 pH Sensor

Specifications	
pH range	0~14
Zero point (pH)	7.00 ± 0.1
Operation temp.	0 ~ 100 °C
Max. Pressure	7 bar (atm)
Outpu	mV
Shell material	Glass
pH bulb	HIW1
Resistance	＜350 MΩ
Reference system	Ag/AgCl/KCl
Electrolyte	SNEX solid-state polymer
Supplement electrolyte bank	Yes
Junction	Double
Liquid Junction	Circular porosity ceramic
Connector	S8
Thread	PG13.5
Cable Length	Coaxial cable 1m (extendable)



CS1555 Performance Chart

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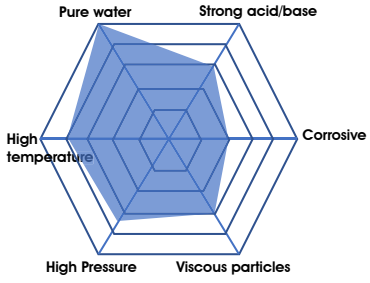
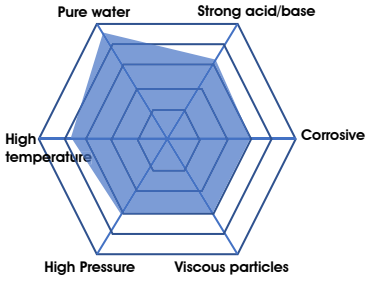
pH ● ORP ○ Ref ● °C ○ Digital ○

CS1550 CS1551



CS1550 Performance Chart



CS1551 Performance Chart

CS1550 pH Sensor

Applications:

Low conductivity water: pure water, boiler water, tap water, drinking water

Specifications	
pH range	0~13
Zero point (pH)	7.00 ± 0.1
Operation temp.	0 ~ 100 °C
Max. Pressure	7 bar (atm)
Output	mV
Shell material	Glass
pH bulb	Low impedance blue
Resistance	<150 MΩ
Reference system	Ag/AgCl/KCl
Electrolyte	SNEX solid-state polymer
Junction	Single
Liquid Junction	Circular porosity ceramic
Temp. sensor	None (optional)
Connector	S8
Thread	PG13.5
Cable Length	Coaxial cable 1m (extendable)
Cable termination	Terminal (Terminal or BNC)

CS1551 pH Sensor

High-durability application for:

Low conductivity water: pure water, boiler water, tap water, drinking water High durability, reliability

Specifications	
pH range	0~13
Zero point (pH)	7.00 ± 0.1
Operation temp.	0 ~ 100 °C
Max. Pressure	7 bar (atm)
Output	mV
Shell material	Glass
pH bulb	Low impedance blue
Resistance	<150 MΩ
Reference system	Ag/AgCl/KCl
Electrolyte	SNEX solid-state polymer
Supplement electrolyte bank	Yes
Junction	Double
Liquid Junction	Circular porosity ceramic
Temp. sensor	None (optional)
Connector	S8
Thread	PG13.5
Cable Length	Coaxial cable 1m (extendable)
Cable termination	Terminal (Terminal or BNC)

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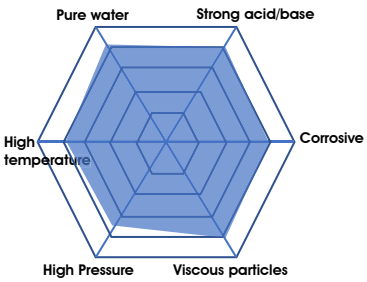
pH ● ORP ○ Ref ● °C ○ Digital ○



CS1554 Performance Chart

Applications:
General purpose

CS1554 pH Sensor

Specifications	
pH range	0~13
Zero point (pH)	7.00 ± 0.1
Operation temp.	0 ~ 100 °C
Max. Pressure	7 bar (atm)
Output	mV
Shell material	Glass
pH bulb	Low impedance blue
Resistance	<150 MΩ
Reference system	Ag/AgCl/KCl
Electrolyte	SNEX solid-state polymer
Junction	Double
Liquid Junction	Circular porosity ceramic
Temp. sensor	None (optional)
Connector	S8
Thread	PG13.5
Cable Length	Coaxial cable 1m (extendable)
Cable termination	Terminal (Terminal or BNC)

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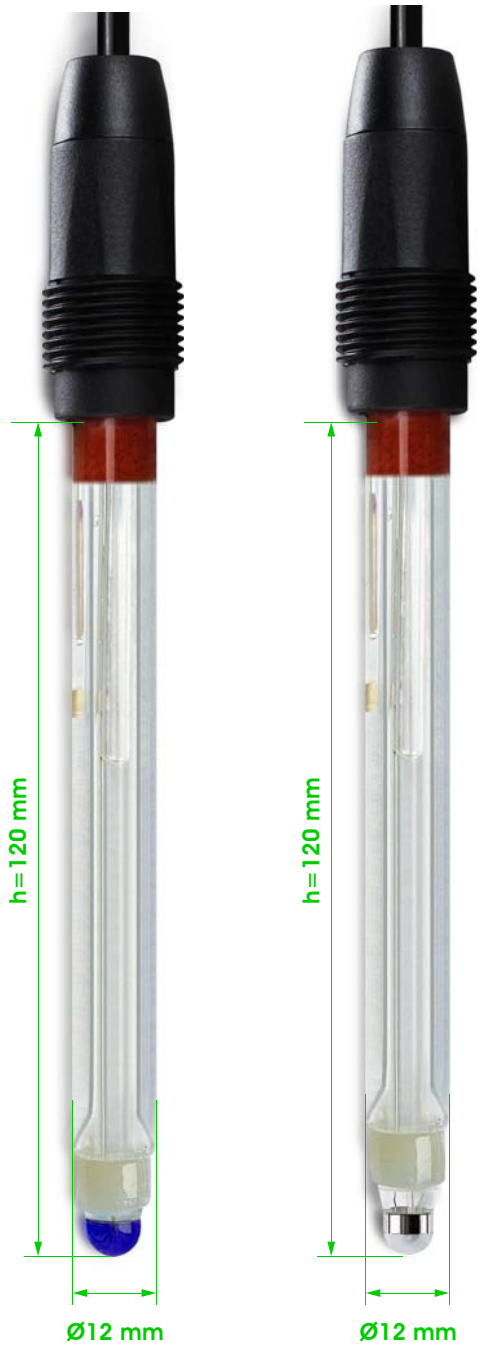
pH ● ORP ○ Ref ● °C ○ Digital ○

CS1548-1312 CS2548-1313



Applicable environment:
Tap Water, sewage & wastewater treatment

CS1548-1312 pH Sensor

Specifications	
pH range	0~13
Zero point (pH)	7.00 ± 0.1
Operation temp.	0 ~ 100 °C
Max. Pressure	7 bar (atm)
Output	mV
Shell material	Glass
pH bulb	Low impedance blue
Resistance	<150 MΩ
Reference system	Ag/AgCl/KCl
Electrolyte	SNEX solid-state polymer
Junction	Double
Liquid Junction	Circular porosity ceramic
thread	PG13.5 with wire sealing cap
Cable Length	Coaxial cable 5m
cable termination	Terminal (Terminal or BNC)

CS2548-1313 ORP Sensor

Specifications	
ORP range	-2000~2000 mV
Temperature range	0 ~ 100 °C
Max. Pressure	7 bar (atm)
Output	mV
Shell material	Glass
Redox tip	Platinum band
Reference system	Ag/AgCl/KCl
Electrolyte	SNEX solid-state polymer
Junction	Yes
Liquid Junction	Circular porosity ceramic
Thread	PG13.5 with wire sealing cap
Cable Length	Coaxial cable 5m
Cable termination	Terminal (Terminal or BNC)

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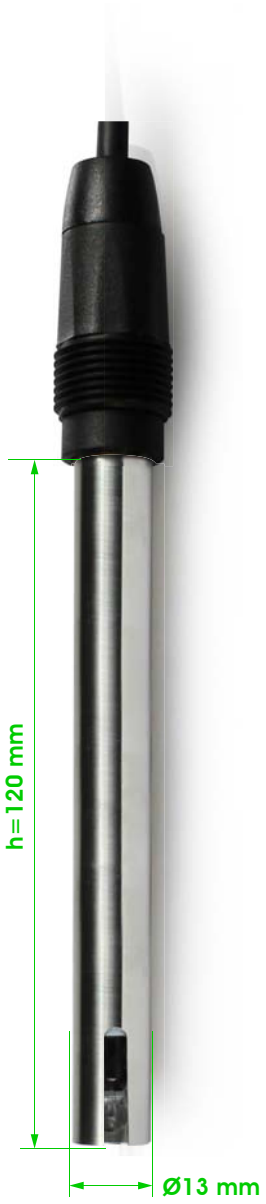
pH ● ORP ○ Ref ● °C ○ Digital ○



Applications:
Surface water, river water, aquaculture, with stainless steel shell

CS1540 pH sensor

Specifications	
PH range	0~14
Operation temp.	0 ~ 80 °C
Max. Pressure	6 bar (atm)
Output	mV
Shell material	Glass+316L Stainless steel
pH bulb	<350 MΩ
Reference system	Ag/AgCl/KCl
Electrolyte	Viscous gel
Junction	Double
Liquid Junction	Porous ceramic
Temp. sensor	None (optional)
Thread	PG13.5
Dimensions	Φ13 x 120mm
Cable Length	Coaxial cable 5m (extendable)
Cable termination	Terminal (Terminal or BNC)

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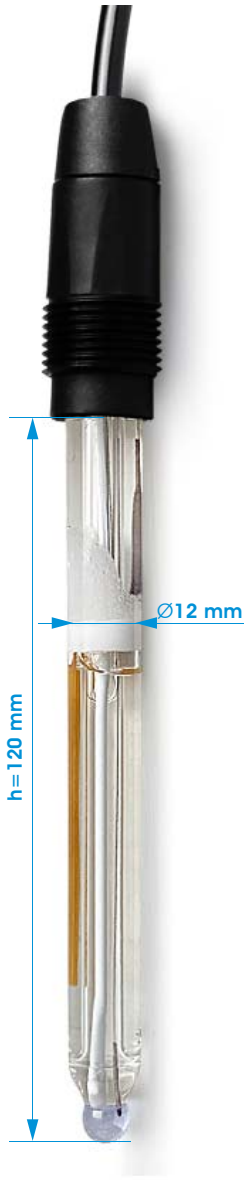
pH ● ORP ○ Ref ● °C ● Digital ○



Applications:
Tap water, surface water, waste water, High durability

CS1543 pH Sensor

Specifications	
pH range	0~14
Operation temp.	0 ~ 90 °C
Max. Pressure	6 bar (atm)
Output	mV
Shell material	Glass
pH bulb	<350 MΩ
Reference system	Ag/AgCl, KCl
Electrolyte	Viscous gel
Junction	Double
Liquid Junction	Porous ceramic
Temp. sensor	Pt1000 (or optional Pt100 /2.252K/10K/22K/30K NTC)
Thread	PG13.5
Dimensions	Φ12 x 120mm
Cable Length	Coaxial cable 5m (extendable)
Cable termination	Terminal (Terminal or BNC)

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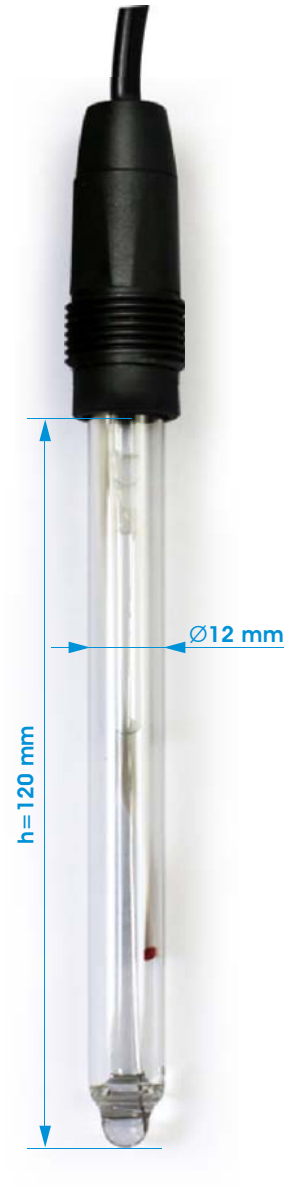
pH ● ORP ○ Ref ● °C ○ Digital ○



Applications:
HF(Hydrofluoric acid) containing media

CS1528 pH Sensor

Specifications	
pH range	0~12
Operation temp.	0 ~ 90 °C
Max. Pressure	6 bar (atm)
Output	mV
Shell material	Glass
pH bulb	W28
Reference system	SNEX internal Ref. system (White).
Electrolyte	Viscous gel
Junction	Double
Liquid Junction	Porous ceramic
Temp. sensor	None (optional)
Thread	PG13.5
Dimensions	Φ12 x 120mm
Cable Length	Coaxial cable 5m (extendable)
Cable termination	Terminal (Terminal or BNC)

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pH ● ORP ○ Ref ● °C ○ Digital ○

Applications:
Seawater, sulfide/ fluoride related media

CS1529 pH Sensor

Specifications	
pH range	0~14
Operation temp.	0 ~ 90 °C
Max. Pressure	6 bar (atm)
Output	mV
Shell material	Glass
pH bulb	W02
Reference system	SNEX internal Ref. system (Blue).
Electrolyte	CMC gel
Junction	Double
Liquid Junction	Porous ceramic
Temp. sensor	None (optional)
Thread	PG13.5
Dimensions	Φ12 x 120mm
Cable Length	Coaxial cable 5m (extendable)
Cable termination	Terminal (Terminal or BNC)

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pH ● ORP ○ Ref ● °C ○ Digital ○

Applications:
SNEX is for tough situations:
Sludge, viscous fluids, protein, hydrogen sulfide, cyanide, seawater, brine, mining, petrochemical process.

CS1668 pH Sensor

Specifications	
pH range	0~14
Operation temp.	0 ~ 90 °C
Max. Pressure	6 bar (atm)
Output	mV
Shell material	PA+GF
pH bulb	B11
Reference system	Ag/AgCl/KCl
Electrolyte	Viscous gel
Junction	Double
Liquid Junction	SNEX Solid Liquid Junction
Temp. sensor	Pt1000 (or optional Pt100 / 2.252K/10K/22K/30K NTC)
Thread	PG13.5
Dimensions	Φ12 x 120mm
Cable Length	Coaxial cable 5m (extendable)
Cable termination	Terminal (Terminal or BNC)

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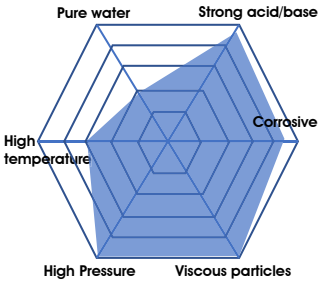
pH ● ORP ○ Ref ● °C ● Digital

In-Line & Submersion

CS1769 pH Sensor

In-Line Max. Pressure to 20 bar (atm)/300 psig,
with SNEX solid liquid junction.



CS1769 Performance Chart

SNEX Liquid Junction

Applications:
High-Max. Pressure pipelines, viscous liquids, protein environments, high pollutants, petrochemicals, flue gas desulfurization.

Specifications	
pH range	0~14
Zero point (pH)	7.00 ± 0.2
Operation temp.	0 ~ 100 °C
Max. Pressure	20 bar (atm)/ 300 psig
Output	mV
Shell material	PPS
pH bulb	HIW1 semi-bulb
Resistance	＜350 MΩ
Reference system	Ag/AgCl/KCl
Liquid Junction	SNEX Solid Liquid Junction (Red)
Temperature sensor	Yes (optional)
Dimensions	Φ30 x 160mm
Thread	G3/4″
Cable Length	Coaxial cable 5m
Cable termination	Terminal (Terminal or BNC)

Digital pH Sensor CS1769D

CS1769D is based on the superior performance of CS1769 sensor, which directly outputs digital pH signals that can be directly applied without the need for meters.

twinno 200 Field Communicator

Paired with "twinno 200 Field Communicator", easy setting and calibration.

Specifications	
Resolution	0.01pH / 0.1℃
Accuracy	±0.2pH /±0.3℃
Operation Temp.	0-70 ℃
Interface / Protocol	RS485 Modbus RTU
Power input	DC 9~24V
Output	pH,mV, ℃

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pH ● ORP ● Ref ● °C ○ Digital ○

Applicable occasions: pH ORP dual output, general purpose

CD1254 pH/ORP Dual-parameter Sensor

Specifications	
pH range	0-14
Zero point (pH)	7.00 ± 0.1
ORP range	-2000~2000 mV
Temperature range	0 ~ 100 °C
Max. Pressure	7 bar (atm)
Output	mV
Shell material	Glass
pH bulb	HIW1
Resistance	＜350 MΩ
Redox tip	platinum gold ring (ORP)
Reference system	Ag/AgCl/KCl
Electrolyte	SNEX solid-state polymer
Junction	Double
Liquid Junction	Porosity ceramics
Temp. sensor	None (optional)
Connector	S8
Thread	PG13.5
Cable Length	Coaxial cable 1m (extendable)
Cable termination	Terminal (Terminal or BNC)

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pH ● ORP ○ Ref ● °C ● Digital

In-Line & Submersion

CS1768 pH Sensor

SNEX is for tough situations:

SNEX Liquid Junction

Applications:
Sludge, viscous fluids, protein, hydrogen sulfide, cyanide, seawater, brine, mining, petrochemical process.

Specifications	
pH range	0~14
Operation temp.	0 ~ 90 °C
Max. Pressure	6 bar (atm)
Output	mV
Shell material	PPS
pH bulb	HIW1
Reference system	Ag/AgCl/KCl
Electrolyte	Viscous gel
Junction	Double
Liquid Junction	SNEX Solid Liquid Junction
Temp. sensor	Pt1000 (or optional Pt100/ 2.252K/10K/22K/30K NTC)
Thread	NPT 3/4"
Dimensions	Φ30 x 160mm
Cable Length	Coaxial cable 5m (extendable)
Cable termination	Terminal (Terminal or BNC)

Digital pH Sensor CS1768D

CS1768D is based on the superior performance of CS1768 sensor, which directly outputs digital pH signals that can be directly applied without the need for meters.

twinno 200 Field Communicator

Paired with "twinno 200 Field Communicator", easy setting and calibration.

Specifications	
Resolution	0.01pH / 0.1℃
Accuracy	±0.1pH /±0.3℃
Operation Temp.	0-70 ℃
Interface / Protocol	RS485 Modbus RTU
Power input	DC 9~24V
Output	pH,mV, ℃

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pH ● ORP ○ Ref ● °C ● Digital

In-Line & Submersion

CS1788 pH Sensor

SNEX is for tough situations:

SNEX Liquid Junction

Applications:
Sludge, viscous fluids, protein, hydrogen sulfide, cyanide, seawater, brine, mining, petrochemical process.

Specifications	
pH range	0~14
Operation temp.	0 ~ 90 °C
Max. Pressure	6 bar (atm)
Output	mV
Shell material	PPS
pH bulb	HIW1
Reference system	Ag/AgCl/KCl
Electrolyte	Viscous gel
Junction	Double
Liquid Junction	SNEX Solid Liquid Junction
Temp. sensor	Pt1000 (or optional Pt100/ 2.252K/10K/22K/30K NTC)
Thread	NPT 3/4"
Dimensions	Φ30 x 160mm
Cable Length	Coaxial cable 5m (extendable)
Cable termination	Terminal (Terminal or BNC)

Digital pH Sensor CS1788D

CS1788D is based on the superior performance of CS1788 sensor, which directly outputs digital pH signals that can be directly applied without the need for meters.

twinno 200 Field Communicator

Paired with "twinno 200 Field Communicator", easy setting and calibration.

Specifications	
Resolution	0.01pH / 0.1℃
Accuracy	±0.1pH /±0.3℃
Operation Temp.	0-70 ℃
Interface / Protocol	RS485 Modbus RTU
Power input	DC 9~24V
Output	pH,mV, ℃

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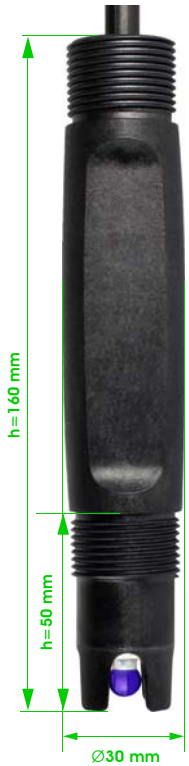
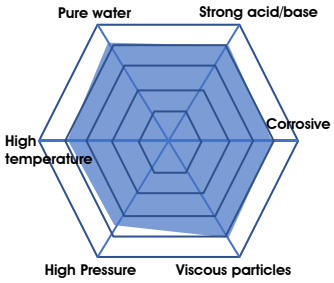
pH ● ORP ○ Ref ● °C ● Digital

In-Line & Submersion

CS1754 pH Sensor

Applicable occasions:
Process/Food and Beverage/Tap Water/Sewage





CS1754 Performance Chart

Specifications	
PH range	0~13
Zero point (PH)	7.00 ± 0.1
Temperature range	0 ~ 100 °C
Max. Pressure	7 bar (atm)
Output	mV
Shell material	PPS
pH bulb	Low impedance blue
Resistance	<150 MΩ
Reference system	Ag/AgCl/KCl
Electrolyte	SNEX solid-state polymer
Junction	Double
Liquid Junction	Porosity PTFE
Temperature sensor	Pt1000 (or optional Pt100/2.252K/10K/22K/30K)
Dimensions	Φ30 x 160mm
Thread	NPT3/4 "
Cable Length	Coaxial cable 5m
Cable termination	Terminal (Terminal or BNC)

Digital pH Sensor CS1754D

CS1754D is based on the superior performance of CS1754 sensor, which directly outputs digital pH signals that can be directly applied without the need for meters.

twinno 200 Field Communicator

Paired with "twinno 200 Field Communicator", easy setting and calibration.

Specifications	
Resolution	0.01pH / 0.1℃
Accuracy	±0.1pH /±0.3℃
Operation Temp.	0-70 ℃
Interface / Protocol	RS485 Modbus RTU
Power input	DC 9~24V
Output	pH,mV, ℃

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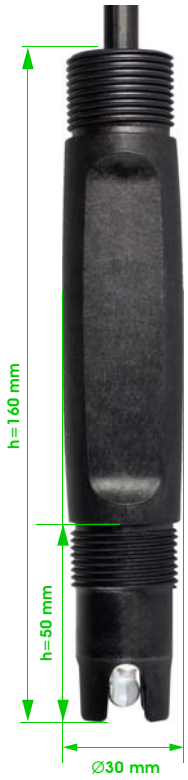
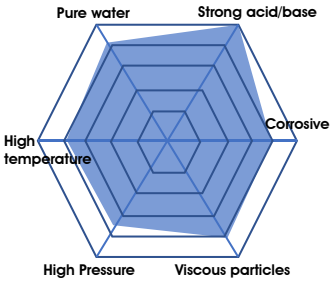
pH ● ORP ○ Ref ● °C ● Digital

In-Line & Submersion

CS1755 pH Sensor

Applicable occasions:
Process/Food and Beverage/Tap Water/Sewage





CS1755 Performance Chart

Specifications	
PH range	0~14
Zero point (PH)	7.00 ± 0.1
Temperature range	0 ~ 100 °C
Max. Pressure	7 bar (atm)
Output	mV
Shell material	PPS
pH bulb	HIW1
Resistance	<250 MΩ
Reference system	Ag/AgCl/KCl
Electrolyte	SNEX solid-state polymer
Junction	Double
Liquid Junction	Porosity PTFE
Temperature sensor	Pt1000 (or optional Pt100/2.252K/10K/22K/30K)
Dimensions	Φ30 x 160mm
Thread	NPT3/4 "
Cable Length	Coaxial cable 5m
Cable termination	Terminal (Terminal or BNC)

Digital pH Sensor CS1755D

CS1755D is based on the superior performance of CS1755 sensor, which directly outputs digital pH signals that can be directly applied without the need for meters.

twinno 200 Field Communicator

Paired with "twinno 200 Field Communicator", easy setting and calibration.

Specifications	
Resolution	0.01pH / 0.1℃
Accuracy	±0.1pH /±0.3℃
Operation Temp.	0-70 ℃
Interface / Protocol	RS485 Modbus RTU
Power input	DC 9~24V
Output	pH,mV, ℃

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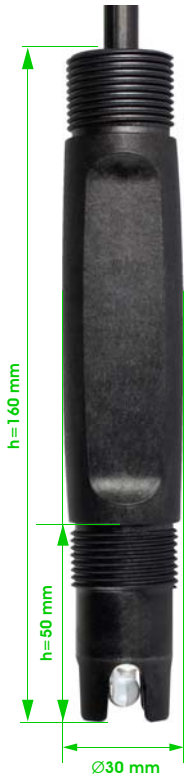
Customer Service: CS@cleaninst.com

pH ● ORP ○ Ref ● °C ● Digital

In-Line & Submersion

CS1753 pH Sensor

Applicable occasions:
Economical process pH sensor, built-in temperature sensor



Specifications	
pH range	0~14
Operation temp.	0 ~ 80 °C
Max. Pressure	6 bar (atm)
Output	mV
Shell material	PP
pH bulb	B11
Reference system	Ag/AgCl/KCl
Electrolyte	Viscous gel
Junction	Double
Liquid Junction	Porous PTFE
Temp. sensor	Pt1000 (or optional Pt100 / 2.252K/10K/22K/30K NTC)
Thread	NPT 3/4"
Dimensions	Φ30 x 160mm
Cable Length	Coaxial cable 5m (extendable)
Cable termination	Terminal (Terminal or BNC)

Digital pH Sensor CS1753D

CS1753D is based on the superior performance of CS1753 sensor, which directly outputs digital pH signals that can be directly applied without the need for meters.

twinno 200 Field Communicator

Paired with "twinno 200 Field Communicator", easy setting and calibration.

Specifications	
Resolution	0.01pH / 0.1℃
Accuracy	±0.1pH /±0.3℃
Operation Temp.	0-70 ℃
Interface / Protocol	RS485 Modbus RTU
Power input	DC 9~24V
Output	pH,mV, ℃

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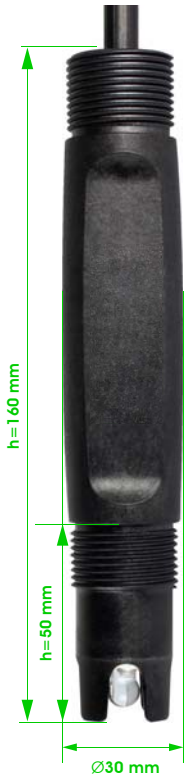
pH ● ORP ○ Ref ● °C ● Digital

In-Line & Submersion

CS1733 pH Sensor

Applicable occasions:
Economical process pH sensor



Specifications	
pH range	0~14
Operation temp.	0 ~ 80 °C
Max. Pressure	6 bar (atm)
Output	mV
Shell material	PP
pH bulb	B11
Reference system	Ag/AgCl/KCl
Electrolyte	Viscous gel
Junction	Double
Liquid Junction	Porous PTFE
Temp. sensor	none
Thread	NPT 3/4"
Dimensions	Φ30 x 160mm
Cable Length	Coaxial cable 5m (extendable)
Cable termination	Terminal (Terminal or BNC)