

OpreX™Analyzers

PH91 / PH92 / SC92

Portable pH Meter, pH/ORP Meter, Conductivity Meter

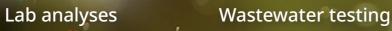
Durable Design, Effortless Use

Portable liquid meter for Professional

Handy pH/ORP or Conductivity/Resistivity Meter



Both handy meter and sensors have IP67 protection Build-in sensor holders add convenience for on-the-go use Large backlit display Stability check function YOKOGAWA ◆ supports your accurate measurement (B) (A) (B) Excellent fit in your hand (2) (A) (B) and back stand for table use (**▼**) (**(b**) Easy operation (Direct calibration switch etc.) Plastic sensor body avoids accidental cracking*





Manufacturing



- pH measurement in research applications
- pH measurement at water treatment plant
- Conductivity measurement of drinking water and pure water
- ORP measurement at wastewater treatment plant

YOKOGAWA's technology enables stable and accurate measurements.

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PH91 Portable pH meter

	Model	Suffix code		Option code	Description
	PH91				Portable pH meter
	Connecting	-00			Without sensor
9	sensors	-11			With KCl replenish-free type combination pH sensor (cable length: 0.75 m)
		-13			With KCl replenish-free type combination pH sensor (cable length: 2.75 m)
		-21			With KCl refillable type combination pH sensor (cable length: 0.75 m)
	-23			With KCl refillable type combination pH sensor (cable length: 2.75 m)	
(Country *1		-J		Japan (with Japanese manual and batteries, without standard markings)
			-E		Except Japan (with English manual and standard markings, without batteries)

^{*1:} Always specify "-J" for orders to Japan ("-E" is not acceptable).

Always select "-E" for orders destined for outside Japan ("-J" is not acceptable).

PH92 Portable pH/ORP meter

Model	Suffix code	Option code	Description	
PH92			Portable pH/ORP meter	
Connecting	-00		Without sensor	
sensors	-11		With KCl replenish-free type combination pH sensor (cable length: 0.75 m)	
	-13		With KCl replenish-free type combination pH sensor (cable length: 2.75 m)	
	-21		With KCl refillable type combination pH sensor (cable length: 0.75 m)	
-23			With KCl refillable type combination pH sensor (cable length: 2.75 m)	
	-41		With KCl refillable type ORP sensor (cable length: 0.75 m)	
	-43		With KCl refillable type ORP sensor (cable length: 2.75 m)	
	-51		With KCl refillable type combination pH sensor (cable length: 0.75 m) + KCl	
			refillable type ORP sensor (cable length: 0.75 m)	
Country *1	-J		Japan (with Japanese manual and batteries, without standard markings)	
-Е			Except Japan (with English manual and standard markings, without batteries)	

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PH92SN pH sensor for portable pH/ORP meter

Model	Suffix cod	e Option code	Description
PH92SN	PH92SN ·····		pH sensor for portable pH/ORP meter
Туре	Type -11 -13 -21 -23		KCl replenish-free type combination pH sensor (cable length: 0.75 m) KCl replenish-free type combination pH sensor (cable length: 2.75 m) KCl refillable type combination pH sensor (cable length: 0.75 m) KCl refillable type combination pH sensor (cable length: 2.75 m)
AA			

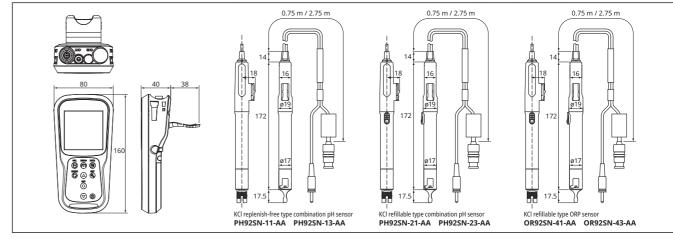
OR92SN ORP sensor for portable pH/ORP meter

Model	Suffix code	Option code	Description
PH92SN	PH92SN		ORP sensor for portable pH/ORP meter
Туре	-41		KCl refillable type ORP sensor (cable length: 0.75 m)
	-43		KCl refillable type ORP sensor (cable length: 2.75 m)
AA			Always -AA

Specifications of Portable pH/ORP Meters

		PH91	PH92		
Measurement		Hydrogen ion concentration (pH)	Hydrogen ion concentration (pH) or oxidation-reduction potential (ORP) of solution		
	рН	0.00 to 14.00 pH	pН	0.00 to 14.00 pH	
			ORP	-2000 to 2000 mV	
Measuring range	Temperature	0 to 80 °C (with sensors) (0 to 50 °C when a KCl replenish-free type sensor and its sensor cable are immersed in water)	Temperature	0 to 80 °C (with sensors) (0 to 50 °C when a KCl replenish-free type sensor and its sensor cable are immersed in water)	
	рН	-2.00 to 16.00 pH	pH	-2.00 to 16.00 pH	
Display limit			ORP	-2000 to 2000 mV (1 decimal place in -999 to 999 mV)	
	Temperature	-10.0 to 120.0 °C	Temperature	-10.0 to 120.0 ℃	
Repeatability (Simulated	рН	±0.01pH±1 digit	pH	±0.01pH±1 digit	
input without sensor)			ORP	±0.3 % of Reading (-999.9 to 999.9 mV; ±0.3 mV)	
Temperature accuracy		Simulated input for main unit only; ±0.5 °C± Combined with sensors; ±1.0 °C (0 to 70 °C),		°C)	
Display		Digital LCD v	vith backlight		
Temperature compensation		automati	c, manual		
Calibration	pH: Automatic (NIST, USA: 5 points maximum, DIN: 6 points maximum) Temperature: Manual (1 point)				
Functions	Display pH and solution temperature (simultaneously), Electrode sensitivity diagnostic functions, Stability check functions, Data Memory (500 points) Display pH or ORP (mV) and solution temperature (simultaneously), Electrode sensitivity diagnostic functions, Stability check fur Data Memory (500 points)				
Construction	IP67				
Compatible standards	CE, RCM, KC				
Connectable sensor		PH92SN		PH92SN, OR92SN	
Wetted Material	pH Sensor KCI replenish-free type combination pH sensor; Polypropylene resin (sensor body, protective cover), Glass (glass electrode, temperature sensor protection tube), junction), Silicon rubber (sensor seal), PVC (cable), rigid polyethylene (grip), ethylene propylene rubber (grip and connection), Nylon 6 (cable bushings) KCI refillable type combination pH sensor; Polypropylene resin (sensor body, protective cover), Glass (glass electrode, temperature sensor protection tube), junction), Silicon rubber (sensor seal)				
	ORP Sensor		KC refillable type ORP sensor; Polypropylene resin (sensor body, protective cover), Glass (glass electrode, temperature sensor protection tube), Ceramics (liquid junction), Silicon rubber (sensor seal), Platinum (electrode)		
Solution conductivity	50 μS/cm or more				
Ambient temperature	0 to 45 ℃				
Dimensions	Approximately H160 × W80 × D40 mm (not including connector part)				
Weight	Approximately 230 g (without batteries, sensor)				
Power source	2 x AA batteries (LR6), Auto power off function (time configurable: 1 to 30 minutes)				
Battery life		Approximate	ely 500 hours		

Drawings [unit: mm]



Conductivity Meter

SC92 Portable conductivity meter

Model	Suffix code		Option code	Description	
SC92				Portable conductivity meter	
Connecting	-00			Without sensor	
sensors	-11			With sensor for high purity water measurement (cable length: 0.75 m)	
	-21			With general-purpose type sensor (cable length: 0.75 m)	
	-23			With general-purpose type sensor (cable length: 2.75 m)	
	-31			The distance of problems of the series of th	
	-41			With sensor for high-conductivity measurement (cable length: 0.75 m)	
Country *1		-J		Japan (with Japanese manual and batteries, without standard markings)	
		-E		Except Japan (with English manual and standard markings, without batteries)	

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SC92SN Conductivity sensor for portable conductivity meter

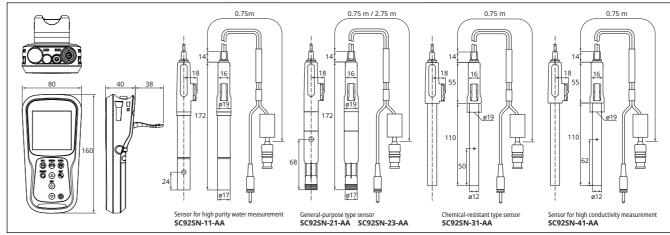
Model	Suffix code	Option code	Description	
SC92SN			Conductivity sensor for portable conductivity meter	
Type -11			Sensor for high purity water measurement (cable length: 0.75 m)	
-21			General-purpose type sensor (cable length: 0.75 m)	
-23			General-purpose type sensor (cable length: 2.75 m)	
-31			Chemical-resistant type sensor (cable length: 0.75 m)	
-41			Sensor for high conductivity measurement (cable length: 0.75 m)	
AA			Always -AA	



Specifications of Portable Conductivity Meter

		SC92			
Measurement	Conductivity or resistivity in aqueous solution				
Measuring range	Conductivity (min. to max. range)	With a sensor for high purity water measurement: 0–2.00 μ S/cm to 0–200.0 μ S/cm With a general-purpose type sensor: 0–20.00 μ S/cm to 0–200.0 mS/cm With a chemical-resistant type sensor: 0–20.00 μ S/cm to 0–200.0 mS/cm With a sensor for high conductivity measurement: 0–200.0 μ S/cm to 0–2.000 S/cm			
	Resistivity	0.001 MΩ·cm to 40.0 MΩ·cm (with a sensor for high purity water measurement)			
	Temperature	0 to 80 °C (sensor combination dependent) (0 to 50 °C when the entire sensor is submerged in water)			
Number of display digits	Conductivity	4 digit maximum (automatic range turnover)			
Number of display digits	Resistivity	4 digit maximum			
Temperature indication range		-10.0 to 120.0 ℃			
Repeatability (Combined with sensors)	Conductivity	±2 % of full scale. (±5 % of full scale of the 0–200 mS/cm range of general-purpose type sensor)			
		Simulated input for main unit only; ± 0.5 °C ± 1 digit Combined with sensors; ± 1.0 °C (0 to 70 °C), ± 1.3 °C (above 70 °C)			
Display		Digital LCD with backlight			
Temperature compensation	0.00 to 10.00 % /°C (reference temperature conversion: 15 to 30 °C)				
Calibration	Conductivity/Resistivity: Automatic (2 points maximum), Manual (5 points maximum) Temperature: Manual (1 point)				
Functions	Display Conductivity or Resistivity and solution temperature (simultaneously), Electrode degradation diagnostic functions, Stability check functions, Data Memory (500 points)				
Construction	IP67				
Compatible standards		CE, RCM, KC			
Connectable sensor		SC92SN			
	Sensor for high purity water measurement	SUS316 (electrode element), polypropylene resin (insulator body), fluorine rubber (O-ring), PVC (cable), silicone rubber (sensor sealing section), hard silicone rubber (sensor sealing), rigid polyethylene (grip), nylon 6 (code bushing), epoxy resin (epoxy), polypropylene resin (sensor body), Epoxy resin (sensor internal filler)			
Wetted Material	General-purpose type sensor	Titanium (sensor electrode), Polypropylene resin (sensor body and cover), Fluorine rubber (O-ring), PVC (cable), Polyphenylene sulfide resin (neck), Silicone rubber (sensor seal), Polypropylene resin (sensor body, cover), Fluorine rubber (O-ring), PVC (cable), Polyphenylene sulfide resin (neck), Silicone rubber (sensor seal), Rigid polyethylene (grip), Polyethylene (grip), Nylon 6 (cord bushing), Epoxy resin (sensor internal filler)			
	Chemical-resistant type sensor/Sensor for high conductivity measurement	High corrosion resistant/high concentration sensors; glass (sensor body), platinum black (electrode element), PVC (cable), Silicone rubber (sensor sealing section), rigid polyethylene (grip), Nylon 6 (cord bushing), Epoxy resin (sensor internal filler)			
Ambient temperature	0 to 45 °C				
Dimensions	Approximately H160 × W80 × D40 mm (not including connector part)				
Weight	Approximately 230 g (without batteries, sensor)				
Power source	2 x AA batteries (LR6), Auto power off function (time configurable: 1 to 30 minutes)				
Battery life		Approximately 500 hours			

Drawings [unit: mm]



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