





OpreX[™]Analyzers

Personal pH, pH/ORP, Conductivity Meters PH71/PH72/SC72

Personal Series are ideal for testing waters outside, laboratory studies, and various other applications.



Features

- Tough and waterproof construction Conforms to IP67
- Large and easy-to-read LCD display Large characters
- Compact and lightweight

Fits comfortably your hand and stands firm on the table

- Lineup of various sensors
- Regulatory compliance
- •EMI(Emission) EN 61326-1 Class B •EMS(Immunity) - EN 61326-1 Table 2
 - (For use in industrial locations)



1 Remaining battery life at a glance Long battery life:

- Approx. 200 hours of continuous use Approx. 600 hours of continuous use (PH71/72)
- ②Large and easy-to-read LCD display Large characters
- 3 Power on/off key Auto power off function
- **4** Easy calibration Automatic/manual calibration
- **5 HOLD key**

Holds the displayed measured value temporarily

6 Entry keys

For data setting, range setting, temperature compensation setting, standard solution calibration, cell constant setting (SC72), etc.

DATA key

Gives access to 300 data points (measured values, temperature, date and time)

Dimension

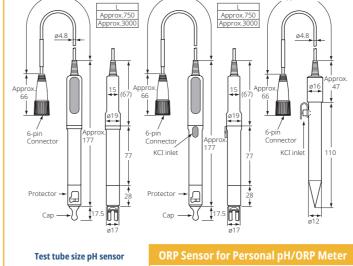


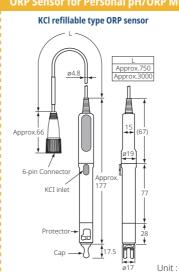


Conductivity Sensor for Personal Conductivity Meter

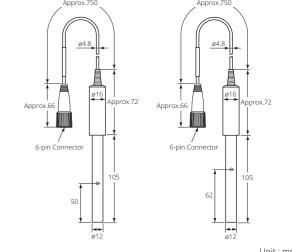
Sensor for high purity water measurement General-purpose type sensor







Chemical-resistant type sensor Sensor for high conductivity measurement



OpreX Analyzers: PH71/PH72/SC72 2 1 OpreX Analyzers: PH71/PH72/SC72

Unit: mm

Model, Codes and Specifications

■ Personal pH Meter

Model	Suffix Code		Code	Option Code	Description	
PH71					Personal pH 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: 3 m)	
	-21				With KCl refillable type combination pH sensor (cable length: 0.75 m)	
	-23				With KCl refillable type combination pH sensor (cable length: 3 m)	
	-32				With needle type pH sensor (cable length: 0.75 m)	
	-33				With test tube size pH sensor (cable length: 0.75 m)	
Language	Language -		-J		Japanese	
-E				English		
Country	Country -AA		-AA		Global except South Korea and Malaysia (with batteries)	
-NB		-NB		South Korea and Malaysia (without batteries) *1		

^{*1:} In South Korea and Malaysia, primary battery is limited by regulations. Prepare batteries with the authorized certification mark for each country.

Personal pH/ORP Meter

Model	Suffix Code	Option Code	Description
PH72			Personal pH/ORP meter
Connecting sensors	-00 -11 -13 -21 -23 -32 -33 -41 -43		Without sensor With KCl replenish-free type combination pH sensor (cable length: 0.75 m) With KCl replenish-free type combination pH sensor (cable length: 3 m) With KCl refillable type combination pH sensor (cable length: 0.75 m) With KCl refillable type combination pH sensor (cable length: 3 m) With needle type pH sensor (cable length: 0.75 m) With test tube size pH sensor (cable length: 0.75 m) With KCl refillable type ORP sensor (cable length: 3 m) With KCl refillable type ORP sensor (cable length: 3 m) With KCl refillable type combination pH sensor (cable length: 0.75 m) + KCl refillable type ORP sensor (cable length: 0.75 m)
Language -J -E			Japanese English
Country	Country -AA -NB		Global except South Korea and Malaysia (with batteries) South Korea and Malaysia (without batteries) *1

^{*1:} In South Korea and Malaysia, primary battery is limited by regulations. Prepare batteries with the authorized certification mark for each country.

■ pH Sensors for Personal pH/ORP Meter

Model	Suffix Code	Option Code	Description
PH72SN			pH sensor for personal pH/ORP meter
Туре	-11		KCl replenish-free type combination pH sensor (cable length: 0.75 m)
	-13		KCl replenish-free type combination pH sensor (cable length: 3 m)
	-18		KCl replenish-free type combination pH sensor (cable length: 0.75 m) *1
	-19		KCl replenish-free type combination pH sensor (cable length: 3 m) *1
	-21		KCl refillable type combination pH sensor (cable length: 0.75 m)
	-23		KCl refillable type combination pH sensor (cable length: 3 m)
	-28		KCl refillable type combination pH sensor (cable length: 0.75 m) *1
	-32		Needle type pH sensor (cable length: 0.75 m)
	-33		Test tube size pH sensor (cable length: 0.75 m)
	-38		Needle type pH sensor (cable length: 0.75 m) *1
	-39		Test tube size pH sensor (cable length: 0.75 m) *1
_	-AA		Always -AA

^{*1:} pH sensor for PH81, PH82 (previous models). Waterproofing is not guaranteed if you use PH81, PH82-type sensor in conjunction with PH71, PH72 meter.

■ ORP Sensors for pH/ORP Meter

Model	Suffix Code	Option Code	Description	
OR72SN *1			ORP Sensor for Personal pH/ORP Meter	
Туре	-41		KCl refillable ORP sensor (cable length: 0.75 m)	
	-43		KCl refillable ORP sensor (cable length: 3 m)	
	-48		KCl refillable ORP sensor (cable length: 0.75 m) *2	
	-49		KCl refillable ORP sensor (cable length: 3 m) *2	
-AA			Always -AA	

^{*1:} Cannot be connected to PH71 and PH81 (previous model) meters.

■ Specifications of Personal pH/ORP Meters

		PH71	PH72			
Measurement		Hydrogen ion concentration (pH) of solution	Hydrogen ion concentration (pH) or oxidation- reduction potential (ORP) of solution			
Measurement	рН	0 to 14 pH *1				
range	ORP	_	-2000 to 2000 mV			
	Temperature	0 to 80°C *2 (or 0 to 100°C *4)				
Resolution	pH	0.01 pH				
	ORP	-	1 mV (0.1 mV: -199.9 to 199.9 mV)			
	Temperature	0.1℃				
Repeatability	pH	±0.01 pH				
(without sensor)	ORP	-	±1 mV			
Accuracy	Temperature	±0.7°C (0 to 70°C), ±1°C (above 70°C)				
Display		Digital LCD				
Indication		pH and solution temperature (simultaneously), sensor check, various messages *3	pH or ORP (mV) and solution temperature (simultaneously), sensor check, various messages *3			
Temperature co (glass electrode temperature cha	emf — aracteristics)	Automatic compensation (or manual compensation **	4)			
Solution conduc	tivity	50 μS/cm or more *5				
Calibration		Automatic (1 or 2 point), manual				
Ambient temper	rature	0 to 50°C				
Wetted Material		 KCI replenish-free type combination pH sensor Polypropylene resin (sensor body, protective cover), Glass (glass electrode, temperature sensor protection tube), Ceramics (liquid junction), Silicon rubber (sensor seal) KCI refillable type combination pH sensor PVC (cable), rigid polyethylene (grip), ethylene propylene rubber (grip and cable connection), Polypropylene resin (sensor body, protective cover), Glass (glass electrode, temperature sensor protection tube), Ceramics (liquid junction), Silicon rubber (sensor seal) Needle type pH sensor Glass (sensor body) 				
		●Test tube size pH sensor Glass (sensor body)	body, protective cover), Glass (glass electrode, temperature sensor protection tube), Ceramics (liquid junction), Silicon rubber (sensor seal)			
Construction		Protection class IP67 (IEC 60529)				
Dimensions		Approximately 150(H) x 61(W) x 42(D) mm (not including connector part)				
Weight		Approximately 220 g (without sensor)				
Power source		2x AA batteries (LR6), Auto power off function (time configurable: 1 to 120 minutes)				
Battery life		Approximately 600 hours *6 of continuous use (battery type and operating condition dependent)				
Functions		Data memory (300 points), alarm clock, etc.				
EMC Compliance		EMI (Emission): EN 61326-1 Class B				
		EMS (Immunity): EN 61326-1 Table 2 (For ise in industr				
		EMC Regulatory Arrangement in Australia and New Ze	ealand (RCM)			
		EN 61326-1 Class B, Table2				
Environmental	rocistanco	Korea Electromagnetic Conformity Standard Class B 한국 전자파적합성 기준				
*1: Display range is		Compliant with RoHS *8, WEEE, and EU battery directive	ve			

^{*1:} Display range is from -2 to 10 pH.

■ Standard Accessories for Personal pH/ORP Meter (for a set of converter and sensor)

User's Manual, Quick Manual, non-slip pads (2 pcs), hand strap, AA batteries (2pcs) (for South Korea and Malaysia "-NB", batteries are not attached)

* Standard solutions (pH 4, pH 7), calibration sub bottles (2 pcs), 3.3 mol/l KCl solution, 5-ml syringe, and cotton swabs are supplied depending on specifications.

■ Spare Parts

pH 4 standard solution (250 ml x 1 bottle) Part number: K9084KF pH 7 standard solution (250 ml x 1 bottle) Part number: K9084KG

pH 9 standard solution (250 ml x 1 bottle) Part number: K9084KH

KCl solution (3.3 mol/l KCl solution, 50 ml x 2 bottles) Part number: K9220XH

Quinhydrone reagent (3 packs, 1 pack for 250 ml solution) Part number: K9024EC

Calibration sub bottle (2 bottles) Part number: K9220WW

Cap set (Sensor protective cover and cap) Part number: K9220ZY

O-ring and gasket set (Gaskets for battery box (2 pcs) and O-rings for connector (2 pcs)) Part number: K9654AY

^{*2:} pH sensor for PH82 (previous model). Waterproofing is not guaranteed if you use PH82-type sensor in conjunction with PH72 meter.

^{*2:} Display range is from -10 to 120°C. When a needle type or test tube size pH sensor is used. 0 to 50°C when a KCl replenish-free type sensor and its sensor cable are immersed in water.

^{*3:} When needle type or test tube size pH sensor is connected, liquid temperature can not be measured.

^{*4:} When a needle type or test tube size pH sensor is connected.

^{*5:} Confirm that the solution conductivity is 50 μ S/cm or more.

^{*6:} When alkaline batteries are used.

^{*7:} Display value may be affected by strong electromagnetic field.

^{*8:} RoHS: EN IEC 63000 (Style 2.03 and later)

Model, Codes and Specifications

■ Personal Conductivity Meter

Model	Suffix Code		Code	Option Code	Description		
SC72					Personal 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: 3 m)		
	-31				With chemical-resistant type sensor (cable length: 0.75 m)		
	-41				With sensor for high conductivity measurement (cable length: 0.75 m)		
Label language	-				Japanese		
	-E				English		
Country	Country -AA		-AA		Global except South Korea and Malaysia (with batteries)		
-NB		-NB		South Korea and Malaysia (without batteries) *1			

^{*1:} In South Korea and Malaysia, primary battery is limited by regulations. Prepare batteries with the authorized certification mark for each country.

■ Conductivity Sensor for Personal Conductivity Meter

Model	Suffix Code	Option Code	Description
SC72SN			Conductivity sensor for personal conductivity meter
Туре	-11 -19 -21 -23 -29 -31 -39 -41 -49		Sensor for high purity water measurement (cable length: 0.75 m) Sensor for high purity water measurement (cable length: 0.75 m) *1 General-purpose type sensor (cable length: 0.75 m) General-purpose type sensor (cable length: 3 m) General-purpose type sensor (cable length: 0.75 m) *1 Chemical-resistant type sensor (cable length: 0.75 m) Chemical-resistant type sensor (cable length: 0.75 m) *1 Sensor for high conductivity measurement (cable length: 0.75 m) Sensor for high conductivity measurement (cable length: 0.75 m) *1
— -AA			Always -AA

^{*1:} Conductivity sensor for SC82 (previous model). Waterproofing is not guaranteed if you use SC82-type sensor in conjunction with SC72 meter.

■ Specifications of Personal Conductivity Meter

Measurement range			SC72		
Part	Measurement		Conductivity of solution		
Resolution Conductivity 0.05% of full scale *3 Resistivity 0.1 MΩ·cm Temperature 0.1°C Repeatability Conductivity ±2% (±5% when general-purpose type sensor is used in the range of 0 to 200 mS/cm) Accuracy Temperature ±0.7°C (0 to 70°C), ±1°C (above 70°C) Display Digital LCD Tidication Conductivity Digital LCD Temperature Compensation Conductivity or resistivity, solution temperature and temperature coefficient (simultaneously), various messages Range switching Automatic/manual Temperature Coefficient (0 to 9.99%/°C) or NaCl coefficient, reference temperature at 25°C Wetted Material Oscipación Sensor, fluoro rubber (0-ring), PVC (cable), polyphenylene sulfite resin, polypropylene resin (insulated area, clear cover) - For high purity water measurement (Cell Constant: 5 cm¹) - SUS316 (electrode element), fluoro rubber (0-ring), polypropylene resin (insulated area), PVC (cable) - Chemical-resistant type (cell Constant: 5 cm²) - Glass, platinum black (electrode element), PVC (cable) - Construction Protection class IP67 (IEC 60529) - Dimensions Approximately 150(H) x 61(W) x 42(D) mm (not including connector part) - Weight Approximately 150(H) x 61(W) x 42(D) mm (not including connector part) - Weight Approximately 220 g (without sensor) - Power source Approximately 200 hours *4 of continuous use (battery type and operating condition dependent) - Functions Data memory (300 points), alarm clock - EMC Compliance - EM	range		0 to 20 μS/cm, 0 to 200 μS/cm, 0 to 2 mS/cm, 0 to 20 mS/cm, 0 to 200 mS/cm •For high purity water measurement (Cell Constant: 0.05 cm ⁻¹) 0 to 2 μS/cm, 0 to 20 μS/cm, 0 to 200 μS/cm •Chemical-resistant type (Cell Constant: 5 cm ⁻¹) 0 to 20 μS/cm, 0 to 200 μS/cm, 0 to 2 mS/cm, 0 to 20 mS/cm, 0 to 200 mS/cm •For high conductivity measurement (Cell Constant: 50 cm ⁻¹)		
Resolution Pacistrivity		Resistivity	0 to 40.0 MΩ·cm (for sensor for high purity water measurement) *1		
Repeatability Conductivity Accuracy Temperature 40.7°C (0 to 70°C), ±1°C (above 70°C) Display Digital LCD Indication Conductivity Accuracy Temperature #4.7°C (0 to 70°C), ±1°C (above 70°C) Indication Conductivity or resistivity, solution temperature and temperature coefficient (simultaneously), various messages Range switching Automatic/manual Temperature compensation Temperature coefficient (0 to 9.99%/°C) or NaCl coefficient, reference temperature at 25°C Mabient temperature Understand One General-purpose type (Cell Constant: 5 cm²) Titanium (sensor), fluoro rubber (0-ring), PVC (cable), polyphenylene sulfite resin, polypropylene resin (insulated area, clear cover) For high purity water measurement (Cell Constant: 5 cm²) Sul5316 (electrode element), fluoro rubber (0-ring), polypropylene resin (insulated area), PVC (cable) Construction Protection class IP67 (IEC 60529) Dimensions Approximately 150(H) x 61(W) x 42(D) mm (not including connector part) Weight Approximately 220 g (without sensor) Power source 2x AA batteries (LR6), Auto power off function (time configurable: 1 to 120 minutes) Battery life Approximately 200 hours **1 of continuous use (battery type and operating condition dependent) EMC Compliance EMC Cempliance EMC Cemple (EMC Sp. 1326-1 Class B EMS (Emmsunity); EN 61326-1 Class B EMS (Emmsunity); EN 61326-1 Table 2 (For ise in industrial locations **) EMC Regulatory Arrangement in Australia and New Zealand (RCM) EN 1326-1 Class B EMS (Emmsunity); EN 61326-1 Table 2 (For ise in industrial locations **) EMC Regulatory Arrangement in Australia and New Zealand (RCM) EN 1326-1 Class B EMS (Enromagnetic Conformity Standard Class B 한국 전자파작합성 기준		Temperature	0 to 80°C *2		
Repeatability Conductivity ±2% (±5% when general-purpose type sensor is used in the range of 0 to 200 mS/cm) Accuracy Temperature ±0.7°C (0 to 70°C), ±1°C (above 70°C) Indication Joint Conductivity or resistivity, solution temperature and temperature coefficient (simultaneously), various messages Range switching Automatic/manual Temperature compensation Ambient temperature 0 to 50°C Wetted Material Ot 50°C Wette	Resolution	Conductivity	0.05% of full scale *3		
Repeatability Conductivity ±2% (±5% when general-purpose type sensor is used in the range of 0 to 200 mS/cm) Accuracy Temperature ±0.7°C (0 to 70°C), ±1°C (above 70°C) Display Digital LCD Indication Substitution of the presentation of the presentation of the presentation of the presentation of the properature of the presentation of the presentation of the presentation of the properature of the properature of the presentation of the presentation of the properature of the properatu		Resistivity	0.1 MΩ·cm		
Securation Temperature ±0.7°C (0 to 70°C), ±1°C (above 70°C)		Temperature	0.1℃		
Display Digital LCD Indication Conductivity or resistivity, solution temperature and temperature coefficient (simultaneously), various messages Range switching Automatic/manual Temperature compensation Temperature coefficient (0 to 9.99%/°C) or NaCl coefficient, reference temperature at 25°C Metted Material Oto 50°C Wetted Material General-purpose type (Cell Constant: 5 cm¹) Titanium (sensor), fluoro rubber (O-ring), PVC (cable), polyphenylene sulfite resin, polypropylene resin (insulated area, clear cover) For high purity water measurement (Cell Constant: 0.05 cm¹) SUS316 (electrode element), fluoro rubber (O-ring), polypropylene resin (insulated area), PVC (cable) Censtruction Protection class IP67 (IEC 60529) Dimensions Approximately 150(H) x 61(W) x 42(D) mm (not including connector part) Weight Approximately 220 g (without sensor) Power source 2x Ab batteries (LR6), Auto power off function (time configurable: 1 to 120 minutes) Battery life Approximately 200 hours *4 of continuous use (battery type and operating condition dependent) EMC Compliance EMI (Emission): EN 61326-1 Class B EMS (Immunity): EN 61326-1 Table 2 (For ise in industrial locations *5) EMC Regulatory Arrangement in Australia and New Zealand (RCM) EN 61326-1 Class B, Table 2 Korea Electromagnetic Conformity Standard Class B 한국 전자파적한성 기준	Repeatability	Conductivity	±2% (±5% when general-purpose type sensor is used in the range of 0 to 200 mS/cm)		
Conductivity or resistivity, solution temperature and temperature coefficient (simultaneously), various messages Automatic/manual Temperature compensation Temperature coefficient (0 to 9.99%/°C) or NaCl coefficient, reference temperature at 25°C Oto 50°C Oto 50°C General-purpose type (Cell Constant: 5 cm²) Titanium (sensor), fluoro rubber (O-ring), PVC (cable), polyphenylene sulfite resin, polypropylene resin (insulated area, clear cover) For high purity water measurement (Cell Constant: 0.05 cm²) SUS316 (electrode element), fluoro rubber (O-ring), polypropylene resin (insulated area), PVC (cable) Chemical-resistant type (Cell Constant: 5 cm²) Glass, platinum black (electrode element), PVC (cable) For high conductivity measurement (Cell Constant: 50 cm²) Glass, platinum black (electrode element), PVC (cable) Protection class IP67 (IEC 60529) For high conductivity measurement (Cell Constant: 50 cm²) Glass, platinum black (electrode element), PVC (cable) Protection class IP67 (IEC 60529) Pomensions Approximately 150(H) x 61(W) x 42(D) mm (not including connector part) Approximately 220 g (without sensor) 2x AA batteries (LR6), Auto power off function (time configurable: 1 to 120 minutes) Power source 2x AA batteries (LR6), Auto power off function (time configurable: 1 to 120 minutes) Punctions Data memory (300 points), alarm clock EMI (Emission): EN 61326-1 Class B EMS (Immunity): EN 61326-1 Class B EMS (Immuni	Accuracy	Temperature	±0.7°C (0 to 70°C), ±1°C (above 70°C)		
### Range switching ### Automatic/manual Temperature compensation	Display		Digital LCD		
Temperature compensation Ambient temperature 0 to 50°C Wetted Material •General-purpose type (Cell Constant: 5 cm²) Titanium (sensor), fluoro rubber (O-ring), PVC (cable), polyphenylene sulfite resin, polypropylene resin (insulated area, clear cover) •For high purity water measurement (Cell Constant: 0.05 cm²) SUS316 (electrode element), fluoro rubber (O-ring), polypropylene resin (insulated area), PVC (cable) •Chemical-resistant type (Cell Constant: 5 cm²) Glass, platinum black (electrode element), PVC (cable) •For high conductivity measurement (Cell Constant: 5 cm²) Glass, platinum black (electrode element), PVC (cable) •For high conductivity measurement (Cell Constant: 5 cm²) Glass, platinum black (electrode element), PVC (cable) •For high conductivity measurement (Cell Constant: 50 cm²) Glass, platinum black (electrode element), PVC (cable) •For high conductivity measurement (Cell Constant: 50 cm²) Glass, platinum black (electrode element), PVC (cable) •For high conductivity measurement (Cell Constant: 50 cm²) Glass, platinum black (electrode element), PVC (cable) •For high conductivity measurement (Cell Constant: 50 cm²) Glass, platinum black (electrode element), PVC (cable) •For high conductivity measurement (Cell Constant: 50 cm²) Glass, platinum black (electrode element), PVC (cable) •For high conductivity measurement (Cell Constant: 50 cm²) Glass, platinum black (electrode element), PVC (cable) •For high conductivity measurement (Cell Constant: 50 cm²) Glass, platinum black (electrode element), PVC (cable) •For high conductivity measurement (Cell Constant: 5 cm²) Glass, platinum black (electrode element), PVC (cable) •For high conductivity measurement (Cell Constant: 5 cm²) Glass, platinum black (electrode element), PVC (cable) •For high conductivity measurement (Cell Constant: 5 cm²) Glass, platinum black (electrode element), PVC (cable) •For high conductivity measurement (Cell Constant: 5 cm²) Glass, platinum black (electrode element), PVC (cable) •For high conductivity measurement (Cell Constant:	Indication				
### Wetted Material ### General-purpose type (Cell Constant: 5 cm¹) Titanium (sensor), fluoro rubber (O-ring), PVC (cable), polyphenylene sulfite resin, polypropylene resin (insulated area, clear cover) For high purity water measurement (Cell Constant: 0.05 cm¹) SUS316 (electrode element), fluoro rubber (O-ring), polypropylene resin (insulated area), PVC (cable) Chemical-resistant type (Cell Constant: 5 cm¹) Glass, platinum black (electrode element), PVC (cable) For high conductivity measurement (Cell Constant: 50 cm¹) Glass, platinum black (electrode element), PVC (cable) Protection class IP67 (IEC 60529) #### Dimensions ##### Approximately 150(H) x 61(W) x 42(D) mm (not including connector part) ###################################	Range switching	9	Automatic/manual		
## General-purpose type (Cell Constant: 5 cm²) Titanium (sensor), fluoro rubber (O-ring), PVC (cable), polyphenylene sulfite resin, polypropylene resin (insulated area, clear cover) For high purity water measurement (Cell Constant: 0.05 cm²) SUS316 (electrode element), fluoro rubber (O-ring), polypropylene resin (insulated area), PVC (cable) Chemical-resistant type (Cell Constant: 5 cm²) Glass, platinum black (electrode element), PVC (cable) For high conductivity measurement (Cell Constant: 50 cm²) Glass, platinum black (electrode element), PVC (cable) For high conductivity measurement (Cell Constant: 50 cm²) Glass, platinum black (electrode element), PVC (cable) Protection class IP67 (IEC 60529) Dimensions Approximately 150(H) x 61(W) x 42(D) mm (not including connector part) Weight Approximately 220 g (without sensor) Power source 2x AA batteries (LR6), Auto power off function (time configurable: 1 to 120 minutes) Battery life Approximately 200 hours *4 of continuous use (battery type and operating condition dependent) Functions Data memory (300 points), alarm clock EMC Compliance EMC (Emission): EN 61326-1 Class B EMS (Immunity): EN 61326-1 Table 2 (For ise in industrial locations *5) EMC Regulatory Arrangement in Australia and New Zealand (RCM) EN 61326-1 Class B, Table2 Korea Electromagnetic Conformity Standard Class B 한국 전자파적합성 기준	Temperature co	mpensation	Temperature coefficient (0 to 9.99%/°C) or NaCl coefficient, reference temperature at 25°C		
Titanium (sensor), fluoro rubber (O-ring), PVC (cable), polyphenylene sulfite resin, polypropylene resin (insulated area, clear cover) •For high purity water measurement (Cell Constant: 0.05 cm³) SUS316 (electrode element), fluoro rubber (O-ring), polypropylene resin (insulated area), PVC (cable) •Chemical-resistant type (Cell Constant: 5 cm³) Glass, platinum black (electrode element), PVC (cable) •For high conductivity measurement (Cell Constant: 50 cm³) Glass, platinum black (electrode element), PVC (cable) Construction Protection class IP67 (IEC 60529) Dimensions Approximately 150(H) x 61(W) x 42(D) mm (not including connector part) Weight Approximately 220 g (without sensor) Power source 2x AA batteries (LR6), Auto power off function (time configurable: 1 to 120 minutes) Battery life Approximately 200 hours *4 of continuous use (battery type and operating condition dependent) Functions Data memory (300 points), alarm clock EMC Compliance EMC Compliance EMC Compliance EMC (Immunity): EN 61326-1 Table 2 (For ise in industrial locations *5) EMC Regulatory Arrangement in Australia and New Zealand (RCM) EN 61326-1 Class B, Table2 Korea Electromagnetic Conformity Standard Class B 한국 전자파적합성 기준	Ambient tempe	rature	0 to 50°C		
Dimensions Approximately 150(H) x 61(W) x 42(D) mm (not including connector part) Weight Approximately 220 g (without sensor) Power source 2x AA batteries (LR6), Auto power off function (time configurable: 1 to 120 minutes) Approximately 200 hours *4 of continuous use (battery type and operating condition dependent) Functions Data memory (300 points), alarm clock EMC Compliance EMI (Emission): EN 61326-1 Class B EMS (Immunity): EN 61326-1 Table 2 (For ise in industrial locations *5) EMC Regulatory Arrangement in Australia and New Zealand (RCM) EN 61326-1 Class B, Table2 Korea Electromagnetic Conformity Standard Class B 한국 전자파적합성 기준	Wetted Material		Titanium (sensor), fluoro rubber (O-ring), PVC (cable), polyphenylene sulfite resin, polypropylene resin (insulated area, clear cover) •For high purity water measurement (Cell Constant: 0.05 cm ⁻¹) SUS316 (electrode element), fluoro rubber (O-ring), polypropylene resin (insulated area), PVC (cable) •Chemical-resistant type (Cell Constant: 5 cm ⁻¹) Glass, platinum black (electrode element), PVC (cable) •For high conductivity measurement (Cell Constant: 50 cm ⁻¹)		
Weight Approximately 220 g (without sensor) Power source 2x AA batteries (LR6), Auto power off function (time configurable: 1 to 120 minutes) Approximately 200 hours *4 of continuous use (battery type and operating condition dependent) Functions Data memory (300 points), alarm clock EMC Compliance EMI (Emission): EN 61326-1 Class B EMS (Immunity): EN 61326-1 Table 2 (For ise in industrial locations *5) EMC Regulatory Arrangement in Australia and New Zealand (RCM) EN 61326-1 Class B, Table2 Korea Electromagnetic Conformity Standard Class B 한국 전자파적합성 기준	Construction		Protection class IP67 (IEC 60529)		
Power source 2x AA batteries (LR6), Auto power off function (time configurable: 1 to 120 minutes) Approximately 200 hours *4 of continuous use (battery type and operating condition dependent) Functions Data memory (300 points), alarm clock EMI (Emission): EN 61326-1 Class B EMS (Immunity): EN 61326-1 Table 2 (For ise in industrial locations *5) EMC Regulatory Arrangement in Australia and New Zealand (RCM) EN 61326-1 Class B, Table2 Korea Electromagnetic Conformity Standard Class B 한국 전자파적합성 기준	Dimensions		Approximately 150(H) x 61(W) x 42(D) mm (not including connector part)		
Battery life Approximately 200 hours *4 of continuous use (battery type and operating condition dependent) Functions Data memory (300 points), alarm clock EMC Compliance EMI (Emission): EN 61326-1 Class B EMS (Immunity): EN 61326-1 Table 2 (For ise in industrial locations *5) EMC Regulatory Arrangement in Australia and New Zealand (RCM) EN 61326-1 Class B, Table2 Korea Electromagnetic Conformity Standard Class B 한국 전자파적합성 기준	Weight		Approximately 220 g (without sensor)		
Functions Data memory (300 points), alarm clock EMC Compliance EMI (Emission): EN 61326-1 Class B EMS (Immunity): EN 61326-1 Table 2 (For ise in industrial locations *5) EMC Regulatory Arrangement in Australia and New Zealand (RCM) EN 61326-1 Class B, Table2 Korea Electromagnetic Conformity Standard Class B 한국 전자파적합성 기준	Power source		2x AA batteries (LR6), Auto power off function (time configurable: 1 to 120 minutes)		
EMI (Emission): EN 61326-1 Class B EMS (Immunity): EN 61326-1 Table 2 (For ise in industrial locations *5) EMC Regulatory Arrangement in Australia and New Zealand (RCM) EN 61326-1 Class B, Table2 Korea Electromagnetic Conformity Standard Class B 한국 전자파적합성 기준	Battery life		Approximately 200 hours *4 of continuous use (battery type and operating condition dependent)		
EMS (Immunity): EN 61326-1 Table 2 (For ise in industrial locations *5) EMC Regulatory Arrangement in Australia and New Zealand (RCM) EN 61326-1 Class B, Table2 Korea Electromagnetic Conformity Standard Class B 한국 전자파적합성 기준	Functions		Data memory (300 points), alarm clock		
9 2	EMC Compliance		EMS (Immunity): EN 61326-1 Table 2 (For ise in industrial locations *5) EMC Regulatory Arrangement in Australia and New Zealand (RCM) EN 61326-1 Class B, Table2		
	Environmental r	esistance	Compliant with RoHS *6, WEEE, and EU battery directive		

^{*1:} Resistivity can be measured for reference. In that case repeatability is determined by conductivity.

■ Standard Accessories for Personal Conductivity Meter

User's Manual, Quick Manual, non-slip pads (2 pcs), hand strap, cotton swabs, AA batteries (2pcs) (for South Korea and Malaysia "-NB", batteries are not attached)

Options (Available Separately)

Standard solution (0.1 mol /l NaCl, 250 ml) Part number: K9221ZA

Spare Parts

O-ring and gasket set (Gaskets for battery box (2 pcs) and O-rings for connector (2 pcs)) Part number: K9654AY

5 OpreX Analyzers: PH71/PH72/SC72 6

^{*2:} Display range is from -10 to 120°C. 0 to 50°C when the sensor cable is immersed in water.

^{*3:} When measuring range is set to full scale.

^{*4:} When alkaline batteries are used.

^{*5:} Display value may be affected by strong electromagnetic field.

^{*6:} RoHS: EN IEC 63000 (Style 2.03 and later)

Compliance

Compliance Personal meter	IP67	CE *1	RCM	кс
pH meter without sensor, pH/ORP meter without sensor	0	0	0	0
pH sensor	_	_	0	0
ORP sensor	_	0	0	0
Conductivity meter without sensor	0	0	0	0
Conductivity sensor	_	0	0	0

^{*1:} RoHS (EN IEC 63000) conforms to style 2.03 or later for meters and style 2.02 or later for sensors.

OpreX[™] Through the comprehensive OpreX portfolio of products, services, and solutions, Yokogawa enables operational excellence across the enterprise.

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