

OpreX™Analyzers

PH71/PH72/SC72

Personal pH, pH/ORP, Conductivity Meters

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)



• Remaining battery life at a glance Long battery life:

Approx. 200 hours of continuous use (SC72)
Approx. 600 hours of continuous use (PH71/72)

②Large and easy-to-read LCD display

Large characters

Simple to Use

- **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.

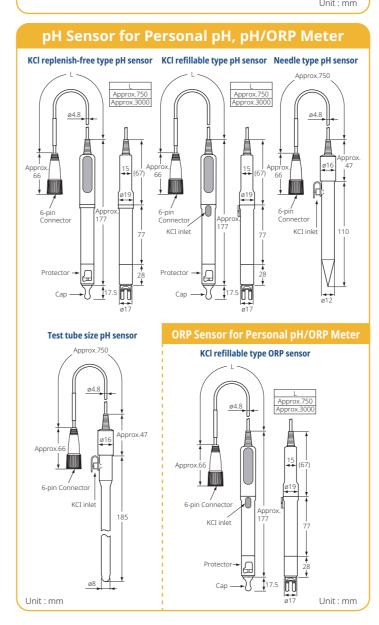
DATA key

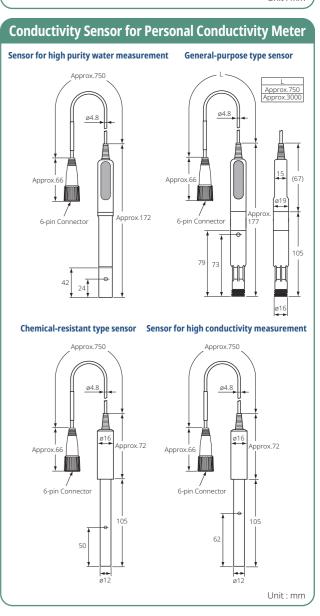
Gives access to 300 data points (measured values, temperature, date and time)

Dimension

Model PH71, PH72 Connector for Sensor Approx.11 Approx.11 Approx.11 FERT DATA Approx.11 Approx.11

Model SC72 connector for Sensor Approx.11 VOKOGAWA HOLD FENT DATA J Init: mm





1 OpreX Analyzers: PH71/PH72/SC72 2

Model, Codes and Specifications

■ Personal pH Meter

Model	Suffix 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 -				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	Model Suffix Code		Description		
PH72			Personal pH/ORP meter		
Connecting sensors	-00 -11 -13 -21		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)		
	-23 -32 -33 -41 -43 -51		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: 0.75 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 -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	KCI 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)		
_	-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			
Type -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		-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	pН	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	рН	±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 ch	emf —	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) Glass (sensor body)						
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 industrial locations *7)						
		EMC Regulatory Arrangement in Australia and New Ze EN 61326-1 Class B, Table2	ealand (KCIVI)					
		Korea Electromagnetic Conformity Standard Class B 한국 전자파적합성 기준						
Environmental r	esistance	Compliant with RoHS *8, WEEE, and EU battery directive						
*1. Display range i	c from 2 to 16	-						

^{*1:} Display range is from -2 to 16 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: K9226KT

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	Label language -				Japanese		
-Е			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		Sensor for high purity water measurement (cable length: 0.75 m)		
	-19		Sensor for high purity water measurement (cable length: 0.75 m) *1		
	-21		General-purpose type sensor (cable length: 0.75 m)		
	-23		General-purpose type sensor (cable length: 3 m)		
	-29		General-purpose type sensor (cable length: 0.75 m) *1		
-31			Chemical-resistant type sensor (cable length: 0.75 m)		
	-39		-39		Chemical-resistant type sensor (cable length: 0.75 m) *1
	-41		Sensor for high conductivity measurement (cable length: 0.75 m)		
	-49		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 MC+cm Temperature 0.1*C Repeatability Conductivity ±2% (£5% when general-purpose type sensor is used in the range of 0 to 200 m5/cm) Accuracy Temperature ±0.7°C (0 to 70°C), ±1°C (above 70°C) Digital LCD Digital LCD Indication Conductivity Automatic/manual 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 Wetted Material Office of Some Some Some Some Some Some Some Some		Conductivity	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 Parisity		Resistivity	0 to 40.0 MΩ·cm (for sensor for high purity water measurement) *1				
Repeatability Conductivity #25% (±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 Conductivity Automanual Range switching Automatic/manual Temperature compensation Temperature oefficient (0 to 9.99%/°C) or NaCl coefficient, reference temperature at 25°C Wetted Material O to 50°C Wetted Material Su3316 (electrode element), PVC (cable), polyphenylene sulfite resin, polypropylene resin (insulated area, clear cover) • For high purity water 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: 5 cm²) Glass, platinum black (electrode element), PVC (cable) • Construction Protection class IP67 (IEC 60529) Dimensions Approximately 150(H) × 61(W) × 42(D) mm (not including connector part) Weight Approximately 220 g (without sensor) Power source 2xA batteries (LR6), Auto power off function (time configurable: 1 to 120 minutes) Battery life Approximately 200 hours ** of continuous use (battery type and operating condition dependent) Functions Data memory (300 points), alarm clock EMC Compliance EMC Cegulatory Arrangement in Australia and New Zealand (RCM) ENG (Emission): EN 61326-1 Class B EMS (Immunity): EN 61326-1 Table 2 (For ise in industrial locations **) EMC Regulatory Arrangement in Australia and New Zealand (RCM) EN 61326-1 Class B EMC Compliance EMC Constance Conformity Standard Class B 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전		Temperature	0 to 80°C *2				
Temperature O.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) Indication Indication Digital LCD Indication	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 Superature Compensation Sensitivity 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 Ambient temperature Compensation Temperature of 0 to 50°C Wetted Material Sensor, fluoro rubber (0-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 (0-ring), polypropylene resin (insulated area), PVC (cable) **For high conductivity measurement (Cell Constant: 50 cm³) Glass, platinum black (electrode element), PVC (cable) **For high conductivity measurement (Cell Constant: 50 cm³) Glass, platinum black (electrode element), PVC (cable) **For high conductivity measurement (Cell Constant: 50 cm³) Glass, platinum black (electrode element), PVC (cable) **For high conductivity measurement (Cell Constant: 50 cm³) Glass, platinum black (electrode element), PVC (cable) **For high conductivity measurement (Cell Constant: 50 cm³) Glass, platinum black (electrode element), PVC (cable) **For high conductivity measurement (Cell Constant: 50 cm³) Glass, platinum black (electrode element), PVC (cable) **For high conductivity measurement (Cell Constant: 50 cm³) Glass, platinum black (electrode element), PVC (cable) **For high conductivity measurement (Cell Constant: 50 cm³) Glass, platinum black (electrode element), PVC (cable) **For high conductivity measurement (Cell Constant: 50 cm³) Glass, platinum black (electrode element), PVC (cable) **For high conductivity measurement (Cell Constant: 50 cm³) Glass, platinum black (electrode element), PVC (cable) **For high conductiv		Resistivity	0.1 MΩ·cm				
Temperature		Temperature	0.1℃				
Display Digital LCD Indication Conductivity or resistivity, solution temperature and temperature coefficient (simultaneously), various messages Range switching Automatic/manual Temperature compensation Ambient temperature Oto 50°C Wetted Material • General-purpose type (Cell Constant: 5 cm²)	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	Accuracy	Temperature	±0.7°C (0 to 70°C), ±1°C (above 70°C)				
messages Automatic/manual Temperature compensation Ambient temperature Oto 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: 50 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 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 ** 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 ** of EMS (Regulatory Arrangement in Australia and New Zealand (RCM) EMC Regulatory Arrangement in Australia and New Zealand (RCM) EMC Regulatory Arrangement in Australia and New Zealand (RCM) EMC Regulatory Arrangement in Australia and New Zealand (RCM) EMC Regulatory Arrangement in Australia and New Zealand (RCM) EMC Regulatory Arrangement in Australia and New Zealand (RCM) EMC Regulatory Arrangement in Australia and New Zealand (RCM) EMC Regulatory Arrangement in Australia and New Zealand (RCM) EMC Regulatory Arrangement in Australia and New Zealand (RCM) EMC Regulatory Arrangement in Australia and New Zealand (RCM) EMC Regulatory Arrangement in Australia and New Zealand (RCM)	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: 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: 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 measurem	Indication						
### 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: 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 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	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 cm¹)	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						
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	Dimensions						
Battery lifeApproximately 200 hours *4 of continuous use (battery type and operating condition dependent)FunctionsData memory (300 points), alarm clockEMC ComplianceEMI (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				
· · · · · · · · · · · · · · · · · · ·	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	resistance	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	0	0
ORP sensor	0	0	0	0
Conductivity meter without sensor	0	0	0	0
Conductivity sensor	0	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.

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