😵 Bluetooth®

mounted!



Model Portable gas monitor GX-3R Pro



🛞 Bluetooth

Allows fast and accurate information sharing in emergencies.

5-year warranty The instrument and sensors have 5-year warranty*. *Option.

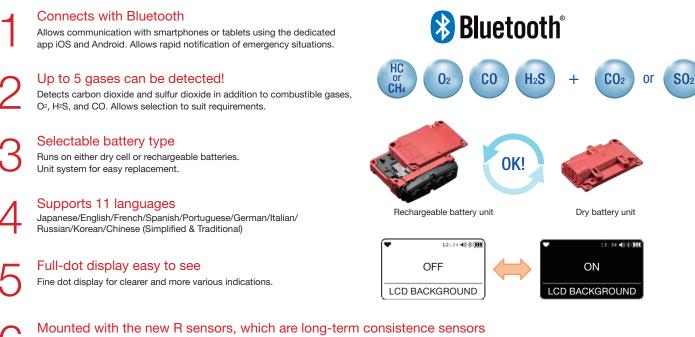
Up to 5 gases can be detected Detects carbon dioxide and sulfur dioxide in addition to combustible gases, O₂, H₂S, and CO.

Intrinsically safe explosion-proof construction and flame-proof enclosures Water and dust resistant, IP66/68

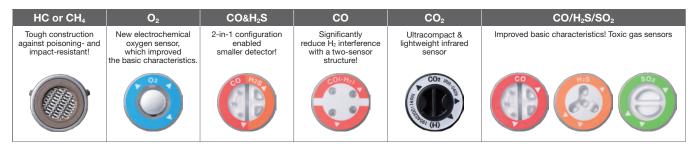
Robust design (Withstands 7m drop)

RIKEN KEIKI Co., Ltd.

Multi-function! GX-3R Pro features



GX-3R Pro mounted with the new R sensor series, which have dramatically improved the performance from the previous sensors. The sensors have 5-year warranty*. *Option.



Wide range of safety functions

Combustible gas conversion function

Eliminates the need for complex calculations. Allows direct readout of 26 different combustible gas types.

Lunch break

Enabling this function retains the TWA and peak values and allows integrating measurement whether power is on or off.

Alarm setpoints can be freely adjusted

You can now adjust alarm setpoints on the main unit. Allows monitoring based on the customer's own standards.

Cal. Limit

Indicates the number of days until recommended regular maintenance when the power is turned on. Reminds the user to perform maintenance on the product to ensure safe use.

Confirmation beep

This function provides audible notification that the device is functioning correctly. Buzzer sounds at preset intervals while measurement is underway.

Combustible conversion gas list

Conversion gas	Gas name displayed	Calibration gas conversion		
Conversion gas	Gas hame displayed	CH ₄	i-C ₄ H ₁₀	
Methane	CH ₄	—	×	
Isobutane	i-C ₄ H ₁₀	0	—	
Hydrogen	H ₂	0	0	
Methanol	CH₃OH	0	0	
Acetylene	C ₂ H ₂	0	0	
Ethylene	C ₂ H ₄	0	0	
Ethane	C ₂ H ₆	0	×	
Ethanol	C ₂ H ₅ OH	0	0	
Propylene	C ₃ H ₆	0	0	
Acetone	C ₃ H ₆ O	0	0	
Propane	C ₃ H ₈	0	×	
Butadiene	C ₄ H ₆	0	0	
Cyclopentane	C ₅ H ₁₀	0	0	

Conversion gas	Gas name displayed	Calibration gas conversion		
Conversion gas	Gas name displayed	CH ₄	i-C ₄ H ₁₀	
Benzene	C ₆ H ₆	0	0	
N-hexane	n-C ₆ H ₁₄	0	0	
Toluene	C ₇ H ₈	0	0	
N-heptane	n-C7H16	0	0	
Xylene	C ₈ H ₁₀	0	0	
N-nonane	n-C ₉ H ₂₀	0	0	
Ethyl acetate	EtAc	0	0	
Isopropyl alcohol	IPA	0	0	
Methyl ethyl ketone	MEK	0	0	
Methyl methacrylate	MMA	0	0	
Dimethyl ether	DME	0	0	
Methyl isobutyl ketone	MIBK	0	0	
Tetrahydrofuran	THF	0	0	

Motion sensor equipped

Man down alarm

Panic alarm

(Tap the unit twice.)

Monitors wearer movement and issues alarm if no movement is detected within preset time.

Lets user issue alarm manually to notify others in emergency.





Screen display inversion

Automatically inverts the display by 180 degrees depending on the orientation of the product. This helps reduce mistakes in reading numerical values.





Heat-resistant Case for protection from heat resource. Part No. 4777 4260 80



Optional accessories



Beit Clip
⁶ Manual suction
unit

	case	Uses a safety pin.	
2	Leather case	Case for protection against dirt. Uses the clip on the unit.	Part No. 4777 4258 70
3	Belt clip	Allows the product to be attached to a belt or pocket.	Part No. 4777 9202 40
4	Ârm/Ankle belt	Belt for securing the unit to your arm or ankle.	Part No. 4777 9293 30
5	Protective film	Protects the display. (set of 5)	Part No. 4777 9296 50
6	Manual suction unit	External manual pump. Draws in at greater flow rates than electric pump.	(with sampling probe) Part No. 4777 9297 20 (with 8m float-type tube) Part No. 4777 9299 70 (with 30m weighted tube) Part No. 4777 9300 30
7	Charging cradle	Cradle for recharging the unit. Cradles can be interconnected.	Part No. BC-3R 00
8	Ý Five-unit AC adaptor	One AC adapter recharges up to five units. *Recharging times remain unchanged.	(with 22.5cm cable) Part No. 4777 9329 70 (with 60cm cable) Part No. 4777 9319 80 (with 120cm cable) Part No. 4777 9333 20
9	Calibration adapter	Adapter for applying gas to GX-3R Pro during bump test and calibration. (with outlet nipple and rubber seal)	Part No. 4777 9312 70
10	Data management program	Software for viewing and managing measurement data.	Part No. 9811 0870 60

Pump unit RP-3R (Pro)

An external electric pump. Allows use for suction sampling.

program



Specifications			
Model	RP-3R(Pro)		
Suction flow rate	High mode: 0.4 L/min or more Low mode: 0.25 L/min or more		
Battery	AA alkaline battery × 1		
Continuous operating time	High mode: Approx. 10 hours Low mode: Approx. 16 hours		
Temperature range	-20°C~+50°C (at a constant condition)		
Humidity range	0~95%RH (non-condensing)		
Explosion-proof class	Inherently safe explosion-proof construction ATEX II1G Ex ia IIC T4 Ga IECEx Ex ia IIC T4 Ga Japan Ex Ex ia IIC T4 Ga		
Structure	Drip-proof and dust-proof performances compliant to IP67 level		
Dimensions / Weight	Approx. 82 mm (W) \times 96 mm (H) \times 29 mm (D)/ Approx. 120 g		
Optional accessories	8m float-type gas sampling tube Filters (set of 10) Meshes (set of 10)		

Docking station SDM-3R

Allows the user to perform a simplified pre-work check (bump test) and gas calibration automatically.



Specifications

Model	SDM-3R
Power supply	100 to 240 V AC ±10%, 50/60 Hz
Suction flow rate	Approx. 0.25 L/min
Temperature range	0~40°C (at a constant condition)
Humidity range	0~95%RH (non-condensing)
Dimensions / Weight	Approx. 130mm (W) \times 110mm (H) \times 250mm (D) / Approx. 800g
Optional accessories	Connecting fixture, wall-mounting fixture, exhaust tube, LAN cap, USB cap

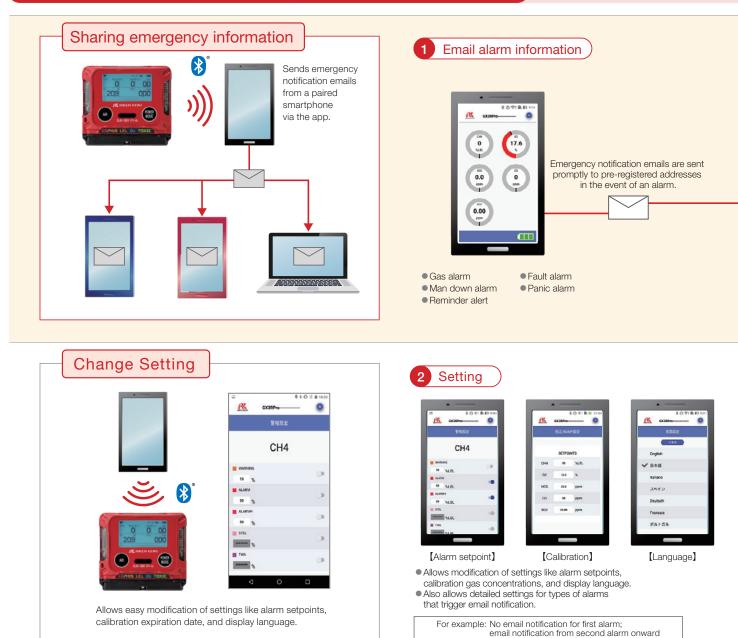
* Cannot be connected to other models GX-2009, GX-3R and others



The GX-3R Pro can communicate with smartphones and tablets via Bluetooth. Allows alarms to be issued to remote locations in real time to notify emergency situations using the dedicated RK Link app. Also allows the main unit's settings to be altered. Download the free RK Link app from Google Play or Apple Store.

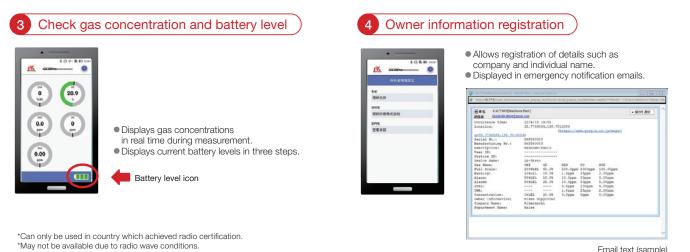


Features available by connecting GX-3R Pro with RK Link









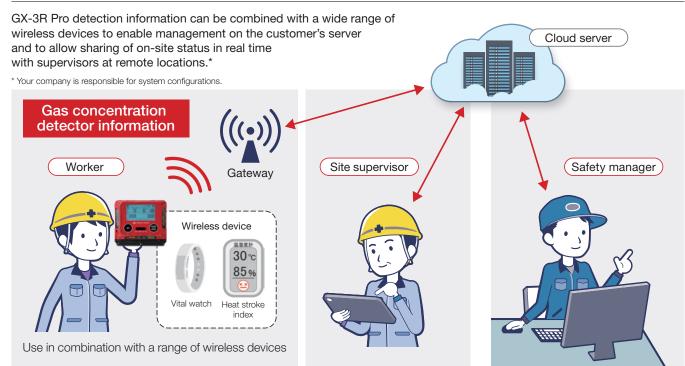
Email text (sample)

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Other features available by Bluetooth



Awareness of individual status, environment, and location improves safety management.



FAQ

Pairing	
How long is the pairing standby time?	5 minutes. After 5 minutes, Bluetooth needs to be turned on again to resume standby.
What happens when a device is paired?	S changes from blinking to steady illumination.
What happens when device pairing is lost?	blinks and the product goes to standby. No audible alarm is issued.
Are unpaired connections possible?	No.
Communication	
What is the communication system (data access method)?	Read and Write.
What is the GATT profile?	Original.
What is the communication interval?	At least 1 second.
Main unit	
What is the continuous operating time when using BLE?	Normal mode: 25 hours Long-life battery mode: 40 hours * Continuous operating time does not change when using BLE.
Is the product GPS-equipped?	No. Acquire location information from a smartphone or beacons.
Others	
Can details of the communication specifications be disclosed?	Yes, with the conclusion of a nondisclosure agreement.
Do the product communication specifications need to be altered for connecting with a system?	No. Perform steps to ensure compatibility on the system side.
What are the costs of connecting with a system?	No costs are incurred. However, additional fees may apply if such connection requires changes in product specifications.

Specifications

Model	GX-3R Pro		
Detection method	Diffusion type (Changeable to sampling type by attaching RP-3R)		
Gas alarm indication	Lamp flashing, continuous modulating buzzer sounding, gas concentration display blinking, vibration Reset operation: Self-latching		
Fault alarm	System abnormality, sensor abnormality, battery voltage drop, calibration failure		
Fault alarm indication	Lamp flashing, intermittent buzzer sounding, detail display Reset operation: Self-latching		
Panic alarm	Two levels: Prealarm and main alarm (after 5-second prealarm) Reset operation: Self-latching		
Man down alarm	Three levels: Prealarm 1 (60 seconds), prealarm 2 (75 seconds), main alarm (90 seconds) Reset operation: Self-latching		
Display	LCD digital (full-dot), backlight		
Displays	Operation status, clock, battery level, temperature, peak reading, calibration notification		
Buzzer volume	Approx. 95 dB (30 cm)		
Languages	Japanese/English/French/Spanish/Portuguese/German/Italian/Russian/Korean/Chinese (simplified/traditional)		
Bluetooth	Bluetooth 4.2 (Bluetooth Low Energy)		
Data logger function	Maximum number of items: 3,600 Interval: 5 minutes (adjustable) Communication system: IrDA		
Power source	Lithium ion rechargeable battery unit (charging time approx. 3 hours) or dry battery unit (AAA alkaline battery \times 2)		
Continuous operating time*1	Long-life battery mode on: Approx. 40 hours (25 °C, fully charged, no alarm, no lighting) Long-life battery mode off: Approx. 25 hours (25 °C, fully charged, no alarm, no lighting)		
Temperature range/ humidity range*2	-40°C~+60°C(no sudden changes), 0~95%RH (non-condensation)		
Explosion-proof class	ATEX II1G Ex da ia IIC T4 Ga / IM1 Ex da ia I Ma (With combustible gas sensor) II1G Ex ia IIC T4 Ga / IM1 Ex ia I Ma (No combustible gas sensor) IECEX Ex da ia IIC T4 Ga / Ex da ia I Ma (With combustible gas sensor) Ex ia IIC T4 Ga / Ex da ia I Ma (No combustible gas sensor) Ex ia IIC T4 Ga / Ex ia I Ma (No combustible gas sensor) Sapan Ex Ex ia IIC T4 Ga		
Protection level	Equivalent to IP66/68 (2 m, 1 h)		
External dimensions/ weight	With rechargeable battery unit: Approx. 73mm(W)×65mm(H)×26mm(D) (excluding protrusions) / Approx. 120 g With dry battery unit: Approx. 73mm(W)×65mm(H)×34mm(D) (excluding protrusions) / Approx. 140 g		
Warranty	3 years (optional 2 years extension available)		

*1 Varies depending on sensor type installed. Please contact Riken Keiki for more information.

*2 In temporary ambient conditions for approximately 15 minutes. The operating temperature and humidity ranges for continuous ambient conditions are as follows: Temperature: -20 °C to +50 °C (no sudden changes) / Humidity: 10 to 90 %RH (no condensation)

Detection gas

Detection target gas	Combustible gas (HC or CH4)	Oxygen (O2)	Carbon monoxide (CO)	Hydrogen sulfide (H ₂ S)	Sulfur dioxide (SO2)	Carbon dic	oxide (CO ₂)
Detection principle	New ceramic type	Electrochemical type		Infrare	d type		
Detection range (service range)	0~100%LEL	0~25.0vol% (~40.0vol%)	0~500ppm (~2000ppm)	0~100.0ppm (~200.0ppm)	0~20.00ppm (~100.00ppm)	0~5.00vol% (~10.00vol%)	0~10000ppm
1 digit	1 %LEL	0.1 vol%	1 ppm	0.1 ppm	0.05ppm	0.01 vol%	20 ppm
Gas alarm setpoint (can be set by user)	3rd alarm : 50%LEL	LL alarm : 18.0vol% H alarm : 23.5vol% OVER alarm : 40.0vol%	2nd alarm : 50ppm 3rd alarm : 1200ppm TWA alarm : 25ppm STEL alarm : 200ppm	2nd alarm : 30.0ppm 3rd alarm : 100.0ppm TWA alarm : 1.0ppm STEL alarm : 5.0ppm	3rd alarm :100.00ppm TWA alarm : 2.00ppm	2nd alarm : 3.00vol% 3rd alarm : 3.00vol% TWA alarm : 0.50vol% STEL alarm : 3.00vol%	2nd alarm : 5000ppm 3rd alarm : 5000ppm TWA alarm : 5000ppm

Standard accessories



Ordering guide

	Code	Selection	Sensor model	Detection range
	Н	Combustible gas (HC) sensor	NCR-6309	0~100%LEL
Code ①	М	Combustible gas (CH₄) sensor	NCR-6309	0~100%LEL
	0	No sensor	—	_
elect whethe	royvaen	sensor is required.		
elect whethe		-	a	
1	Code	Selection	Sensor model	Detection range
Code ②	1	Oxygen (O₂) sensor	ESR-X13P	0~25.0vol%(~40.0vol%)
I	0	No sensor		_
elect one sen	nsor (dete	ction gas type) to be installed.		
	Code	Selection	Sensor model	Detection range
	E1	Carbon monoxide/ hydrogen sulfide (CO/H₂S) sensor	ESR-A1DP	0~500ppm(~2000ppm) 0~100.0ppm(~200.0ppm)
Code 34	E2	Carbon monoxide (CO) sensor *H₂ interference reduction	ESR-A1CP	0~500ppm(~2000ppm)
Code @ ()	E3	Sulfur dioxide (SO ₂) sensor	ESR-A13D	0~20.00ppm(~100.00ppm)
	E4	Hydrogen sulfide (H ₂ S) sensor	ESR-A13i	0~100.0ppm(~200.0ppm)
	E 5	Carbon monoxide (CO) sensor	ESR-A13P	0~500ppm(~2000ppm)
	00	No sensor	_	_
	Code E3	ction gas type) to be installed. Selection Sulfur dioxide (SO ₂) sensor	Sensor model ESR-A13D ESR-A13i	Detection range 0~20.00ppm(~100.00ppm) 0.100.0ppm(200.0ppm)
Code (5)(6)	Code E3 E4	Selection Sulfur dioxide (SO₂) sensor Hydrogen sulfide (H₂S) sensor	ESR-A13D ESR-A13i	0~20.00ppm(~100.00ppm) 0~100.0ppm(~200.0ppm)
Code 56	Code E3 E4 D1	Selection Sulfur dioxide (SO ₂) sensor Hydrogen sulfide (H ₂ S) sensor Carbon dioxide (CO ₂) <vol%> sensor</vol%>	ESR-A13D ESR-A13i IRR-0409	0~20.00ppm(~100.00ppm) 0~100.0ppm(~200.0ppm) 0~5.00vol%(~10.00vol%)
Code (5)6)	Code E3 E4	Selection Sulfur dioxide (SO₂) sensor Hydrogen sulfide (H₂S) sensor	ESR-A13D ESR-A13i	0~20.00ppm(~100.00ppm) 0~100.0ppm(~200.0ppm)
Code 56	Code E3 E4 D1 D2	Selection Sulfur dioxide (SO ₂) sensor Hydrogen sulfide (H ₂ S) sensor Carbon dioxide (CO ₂) <vol%> sensor Carbon dioxide (CO₂) <ppm> sensor</ppm></vol%>	ESR-A13D ESR-A13i IRR-0409 IRR-0433 —	0~20.00ppm(~100.00ppm) 0~100.0ppm(~200.0ppm) 0~5.00vol%(~10.00vol%)
Code ⑤⑥ elect the batt	Code E3 E4 D1 D2 00	Selection Sulfur dioxide (SO ₂) sensor Hydrogen sulfide (H ₂ S) sensor Carbon dioxide (CO ₂) <vol%> sensor Carbon dioxide (CO₂) <ppm> sensor No sensor</ppm></vol%>	ESR-A13D ESR-A13i IRR-0409 IRR-0433 — s cannot be selected.	0~20.00ppm(~100.00ppm) 0~100.0ppm(~200.0ppm) 0~5.00vol%(~10.00vol%)
	Code E3 E4 D1 D2 00	Selection Sulfur dioxide (SO ₂) sensor Hydrogen sulfide (H ₂ S) sensor Carbon dioxide (CO ₂) <vol%> sensor Carbon dioxide (CO₂) <ppm> sensor No sensor</ppm></vol%>	ESR-A13D ESR-A13i IRR-0409 IRR-0433 — s cannot be selected.	0~20.00ppm(~100.00ppm) 0~100.0ppm(~200.0ppm) 0~5.00vol%(~10.00vol%) 0~10000ppm —
	Code E3 E4 D1 D2 00	Selection Sulfur dioxide (SO ₂) sensor Hydrogen sulfide (H ₂ S) sensor Carbon dioxide (CO ₂) <vol%> sensor Carbon dioxide (CO₂) <ppm> sensor No sensor No sensor Note Two identical sensors</ppm></vol%>	ESR-A13D ESR-A13i IRR-0409 IRR-0433 s cannot be selected. Select Bluetoc	0~20.00ppm(~100.00ppm) 0~100.0ppm(~200.0ppm) 0~5.00vol%(~10.00vol%) 0~10000ppm —
elect the batt	Code E3 E4 D1 D2 00	Selection Sulfur dioxide (SO ₂) sensor Hydrogen sulfide (H ₂ S) sensor Carbon dioxide (CO ₂) <vol%> sensor Carbon dioxide (CO₂) <ppm> sensor No sensor Note Two identical sensors Selection Model Rechargeable</ppm></vol%>	ESR-A13D ESR-A13i IRR-0409 IRR-0433 — s cannot be selected. Select Bluetoc Code (8)	0~20.00ppm(~100.00ppm) 0~100.0ppm(~200.0ppm) 0~5.00vol%(~10.00vol%) 0~10000ppm bth compatibility. ode Selection Model 1 Bluetooth support
elect the batt Code 7	Code E3 E4 D1 D2 00 tery type. Code L D	Selection Sulfur dioxide (SO2) sensor Hydrogen sulfide (H2S) sensor Carbon dioxide (CO2) <vol%> sensor Carbon dioxide (CO2) <ppm> sensor No sensor Note Two identical sensors Selection Model Rechargeable BUL-3R Iithium ion battery BUD-3R</ppm></vol%>	ESR-A13D ESR-A13i IRR-0409 IRR-0433 — s cannot be selected. Select Bluetoc Code (8) — *Can only I *May not b	0~20.00ppm(~100.00ppm) 0~100.0ppm(~200.0ppm) 0~5.00vol%(~10.00vol%) 0~10000ppm — bth compatibility. ode Selection Model 1 Bluetooth support — 0 Bluetooth unsupported —
elect the batt Code 7	Code E3 E4 D1 D2 00 tery type. Code L D	Selection Sulfur dioxide (SO2) sensor Hydrogen sulfide (H2S) sensor Carbon dioxide (CO2) <vol%> sensor Carbon dioxide (CO2) <ppm> sensor No sensor Note Two identical sensors Selection Model Rechargeable lithium ion battery</ppm></vol%>	ESR-A13D ESR-A13i IRR-0409 IRR-0433 — s cannot be selected. Select Bluetoc Code (8) — *Can only I *May not b	0~20.00ppm(~100.00ppm) 0~100.0ppm(~200.0ppm) 0~5.00vol%(~10.00vol%) 0~10000ppm — bth compatibility. ode Selection Mode 1 Bluetooth support — 0 Bluetooth unsupported —
elect the batt Code 7	Code E3 E4 D1 D2 00 tery type. Code L D Selected co	Selection Sulfur dioxide (SO2) sensor Hydrogen sulfide (H2S) sensor Carbon dioxide (CO2) <vol%> sensor Carbon dioxide (CO2) <ppm> sensor No sensor Note Two identical sensors Selection Model Rechargeable BUL-3R Iithium ion battery BUD-3R</ppm></vol%>	ESR-A13D ESR-A13i IRR-0409 IRR-0433 — s cannot be selected. Code (8) *Can only 1 *May not b	0~20.00ppm(~100.00ppm) 0~100.0ppm(~200.0ppm) 0~5.00vol%(~10.00vol%) 0~10000ppm — bth compatibility. ode Selection Model 1 Bluetooth support — 0 Bluetooth unsupported —
elect the batt Code ⑦ Write the s	Code E3 E4 D1 D2 00 tery type. Code L D selected co the right.	Selection Sulfur dioxide (SO2) sensor Hydrogen sulfide (H2S) sensor Carbon dioxide (CO2) <vol%> sensor Carbon dioxide (CO2) <ppm> sensor No sensor Note Two identical sensors Selection Model Rechargeable lithium ion battery Alkaline battery BUD-3R</ppm></vol%>	ESR-A13D ESR-A13i IRR-0409 IRR-0433 — s cannot be selected. Code (8) *Can only 1 *May not b	0~20.00ppm(~100.00ppm) 0~100.0ppm(~200.0ppm) 0~5.00vol%(~10.00vol%) 0~10000ppm ————————————————————————————————

Heat-resistantcase	Manual suction unit (with 8m float-type tube)
Leather case	Manula suction unit (with 30m weighted tube)
Belt clip	Charging cradle
Arm/ankle belt	Five-unit AC adaptor (with 22.5cm cable)
Protective film	Five-unit AC adaptor (with 60cm cable)
Manual suction unit (with sampling probe)	Five-unit AC adaptor (with 120cm cable)

NameQuantityCalibration adaptorData management programPump unit RP-3R(Pro)Docking station SDM-3R_______

\bigstar Distributed by: