

Product Specifications

Product Name / Model	Residual Oxygen Meter PACK KEEPER / RO-105KS	Residual Oxygen Meter PACK MASTER / RO-105S	Residual Oxygen / Carbon Dioxide Meter PACK LEADER / RO-105LS
Oxygen sensor Model	WAGNIT® / WA-SGF2 (One year warranty)		
Oxygen sensor Measurement method	Membrane type galvanic cell		
CO ₂ Sensor Measurement method	NDIR (Non dispersive infrared absorption method)		
Display method	Monochrome TFT LCD display		
Measurement items	O ₂ Oxygen concentration: 0.00 to 9.99%O ₂ , 10.0 to 85.0%O ₂ automatic range changeover Gas replacement rate: 0.0 to 100.0%		CO ₂ concentration: 0.0 to 100.0%CO ₂
Measurement range	DO*1 0.00 to 9.99mg/L, 10.0 to 20.0mg/L automatic range changeover Saturation rate: 0.0 to 200.0% Water temperature: 0.0 to 40.0°C		
Repeatability (Following our measurement conditions at shipment)	O ₂ 0.00 to 0.99%O ₂ : ±0.03%O ₂ , 1.00 to 9.99%O ₂ : ±0.09%O ₂ , 10.0 to 25.0%O ₂ : ±0.2%O ₂ , 25.1 to 85.0%O ₂ : ±2.0%O ₂		CO ₂ 0.0 to 100.0%CO ₂ : ±3% reading value
Measurement method	One-touch sampling		
Required gas volume*2	6mL		
Measurement time*3	6 seconds		9 seconds
Calibration method (O ₂)	Select "CAL" from the menu and press the START key to calibrate.		
Memory function	Up to 300 measurements can be saved. The history can be displayed on the screen.		
External output	External connection possible with an RS-232C cable (printer, personal computer)		
Other functions	<ul style="list-style-type: none"> • Automatic stability decision function (With display function using progress status bar) • Self-diagnosis function (Error message displayed when sensor life is reached or output error occurs, etc.) • Sensor warranty term notification function (Oxygen sensor only) • Japanese/English selection function • Initialization function • Clogging detection function • Timezone selection function • Guidance display function 		
Operating temperature range	5 to 40°C (With no dew condensation)		
Power supply	AA alkaline batteries or nickel-metal hydride batteries (rechargeable) x 4 batteries, or AC adapter (100VAC)		
Main unit dimensions	93(W) x 155(D) x 125(H) mm (excluding protrusions)		
Main unit weight	Approx. 620g (including batteries)		

*1 In order to measure DO, the DO Measuring Device (model: MA-300, optional accessory) is required.

*2 Minimum gas volume when measuring multiple samples successively in the Auto mode. *3 Minimum time when measuring multiple samples successively in the Auto mode.

Package contents

Oxygen sensor (WAGNIT®) / model:WA-SGF2
 AA alkaline batteries (4pcs.)
 AC adapter (Output 6 VDC)
 Adhesive rubber (20 pcs.)
 Maintenance kit
 Needle (vertical slot type, 3pcs.)
 Needle (horizontal slot type, 1pc.)
 Operation manual
 Handy User's Guide

*Oxygen sensor, AA alkaline batteries and needle (vertical) are already mounted in the main unit.

Optional accessories

Quick Sampler / model:PO-1 Quick Sampler 2 / model:PO-2
 DO Measuring Device / model:MA-300
 Gas Sampling Glass Tube / model:GS-2
 Can Opener / model:KO-1 Opener / model:KO-X1
 Printer / model:CBM-910II-40 Storage Case / model:ROPSC1

Optional consumable parts

Oxygen sensor / model:WA-SGF2 DO sensor / model:WA-BRM5
 AC adapter / model:AC-105 Sampling adapter / model:SA-5
 Adhesive rubber / model:RG-1 (100-piece set)
 Needle / model:NN-2116R-12 (Vertical slot type, 12-pc. set)
 Needle / model:T-30-12 (Horizontal slot type, 12-pc. set)
 Maintenance kit / model:MK-105 Main cover / model:RO-C
 Check valve / model:RO-CV (3-pc. set)
 Membrane filter / model:RO-MF (5-pc. set)
 O-ring for housing / model:P-8-10 (10-pc. set)
 Sampling tube with fitting / model:RO-SC (5-pc. set)

Please note that these specifications are subject to change without notice for product improvement. (May 2023)

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Dealt by:



Headspace MAP Gas Compatible

Residual Oxygen / Carbon Dioxide Meter

Upgraded with new functions

Adding value to the food packaging through the comfortable usability.

PACK LEADER
NEW Model:RO-105LS



PACK KEEPER
NEW Model:RO-105KS

PACK MASTER®
NEW Model:RO-105S

Iijima Electronics Corporation

Improve quality and productivity with our multi-functional range of **MAP gas compatible** models

PACK KEEPER

Model:RO-105KS

O₂

Low-cost model for O₂ measurement only



PACK MASTER

Model:RO-105S

O₂ DO

Printer, PC output

DO-compatible model (options required)



PACK LEADER

Model:RO-105LS

O₂ CO₂

Printer, PC output

Standard O₂ & CO₂ sensor

Simultaneously measure with one unit

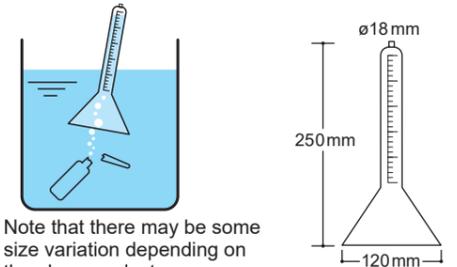


Measure a variety of packages

Gas Sampling Glass Tube

Model:GS-2 Option (sold separately)

Measure gas volume and gas concentration by opening a container submerged in water, collecting all of the sample gas in the headspace, and extracting the internal gas.



Note that there may be some size variation depending on the glass product.

Types with a total gas volume of 10 mL and 80 mL are also available. Total gas volume: 20 mL Minimum scale: 0.2 mL

Opener

Model:KO-X1 Option (sold separately)

Turn the rotary handle to open a hole in the plastic bottle cap for inserting the needle.

<Usage conditions>

- Cap height: min. 16 mm to max. 35 mm
- Neck diameter: min. ø22 mm to max. ø36 mm



Can Opener

Model:KO-1

Use the dedicated cutter to open a hole in a metal can for inserting the needle.

<Usage conditions>

- Diameter: min. ø45 mm to max. ø155 mm

* If the container's inner pressure is higher than +40 kPa, the sensor or components could be damaged, or a correct measurement value may not be attained when the needle is inserted. In this case, use the "Gas Sampling Glass Tube (Model:GS-2)" to measure.

New Oxygen sensor

WAGNIT

Model:WA-SGF2



WAGNIT is the registered trademark of the Iijima Electronics oxygen sensor.

Measure DO in beverages, etc.

DO Measuring Device

Option (sold separately) Model:MA-300

Measure dissolved oxygen (DO) in a liquid using the DO measurement dedicated oxygen sensor (WA-BRM5) and housing.

* This system cannot be connected to the PACK KEEPER or PACK LEADER.



"One Year Warranty" Oxygen Sensor

Suppose the oxygen sensor fails and becomes unusable within one year of opening the package and starting use. In that case, Iijima Electronics will provide a "fault replacement" so you do not have to purchase an additional sensor for one year. The "fault replacement" is not a new sensor but a product that can be used for the remainder of the warranty term.

Easy on-the-spot replacement



Measure high-density O₂

Measure up to 85% O₂.

Stable measurements even in a CO₂ environment

In addition to combustible gas, measurements can be made in CO₂ gas.

PACK MASTER is the registered trademark of the Iijima Electronics product.

"Sensor warranty term notification function"

When the warranty expiration nears, the remaining number of days in the warranty appears as a guide for replacing the sensor (when the power is ON). Refer to this number and order a new oxygen sensor to ensure uninterrupted measurements.



Displays the 25 days up to the warranty expiration

Speedy measurements

One-touch measurements

Just press the START key to begin. The automatic stability decision function will display the stable value.



Convenient functions

Clogging detection function

A pressure sensor is mounted. A message will appear if the needle or tube is clogged when the gas is drawn. Replace the part at the site to resolve the problem.

Guidance display function

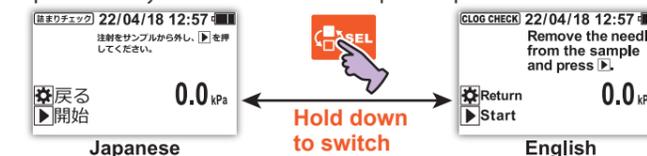
Easy-to-understand troubleshooting and error messages are displayed in Japanese. QR Codes are also provided so you can check detailed procedures and videos on our website.

Memory function (300 cases)

Press the MEMORY key to record the measured values. The history can be read out easily.

NEW "Japanese/English selection function"

Switch the displays between Japanese and English on any screen by holding down the SELECT key. This function is convenient for operations by workers who do not speak Japanese.



Measure depressurized samples with a single touch

Improved sampling performance

The improved suction force enables automatic suction of depressurized samples that could traditionally be suctioned only with a manual syringe. Eliminate variation between workers using manual operations and improve efficiency!

Cups, trays, packs, etc., made of flexible resin



Significantly reduce work time

Quick Sampler

Model:PO-1

With this easy-to-use design, simply fix the needle and set the sampler on the sample to pierce it. The adhesive gel on the base maintains a seal with the sample and prevents air entry. The risk of contamination is reduced as adhesive rubber is not used.



* A dedicated needle is used. (NN-2138S)

Quick Sampler 2

Model:PO-2

The resin plate is small, so the adhesive gel can be attached easily to the sample surface, even if it is indented.



The QUICK SAMPLER/QUICK SAMPLER 2 cannot be used for measurements with the following sample shapes and materials.



Print out measured values

Printer

Model:CBM-910II-40 Option (sold separately)

Connect the printer with an RS-232C cable and print out the data when the measurement is completed.

<Printing example>



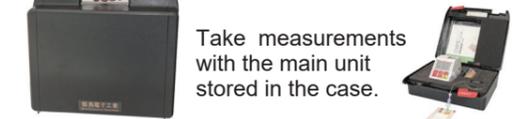
* The printer cable is optional.

Easy storage

Storage Case

Model:ROPSC1 Option (sold separately)

This dedicated case holds the main unit and accessories.



Take measurements with the main unit stored in the case.