QUICK SAMPLER
(Model: PO-1)

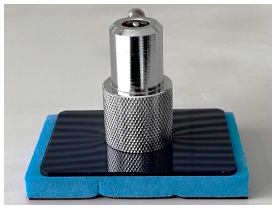
Operation Manual

Thank you for purchasing the QUICK SAMPLER PO-1. This Sampler eliminates the need to attach adhesive rubber or pierce the needle through the adhesive rubber.

Always read and fully understand this manual before starting to ensure correct and safe use. Keep this manual near the device for quick reference at any time.

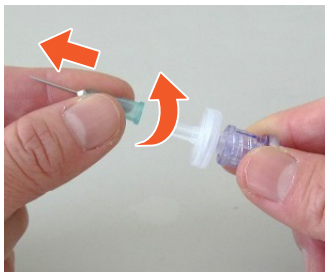
1. Confirmation of package contents

When unpacking the QUICK SAMPLER, confirm that the following items are included and that the contents have not been damaged. If any parts are missing or damaged, contact the dealer from which you purchased the product.

1	QUICK SAMPLER (Model: PO-1) • PO-1 unit • Sponge base 	1 pc.
2	Needle (for replacement) (Terumo: NN-2138S) When using the sampling adapter (model: SA-5), exchange the needle with this needle before starting measurements. Indicate the model indicated above when ordering additional parts from a laboratory equipment dealer. 	5 needles
3	Adhesive gel (Φ7×t3) Indicate the model RG-2 (20-pc. set) when ordering additional parts. 	5 pcs.
4	Fitting (Model: VRMC-6) This fitting must be mounted when measuring with the QUICK SAMPLER. 	3 pcs.
5	Operation manual (this document)	1 copy

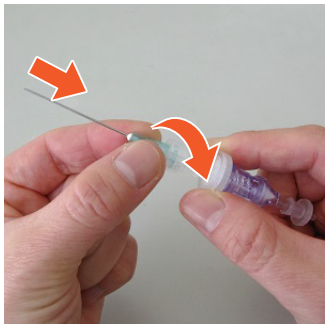
2. Installation methods

* When using the RO-103S/RO-103KS oxygen meter, the needle (NN-2138S) and fittings are attached as a standard, so steps 1 to 3 are unnecessary.



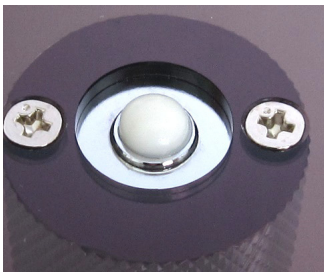
1. Remove the needle (NN-2116R) enclosed with the oxygen meter.

2. Attach the enclosed fitting onto the end of the membrane filter.



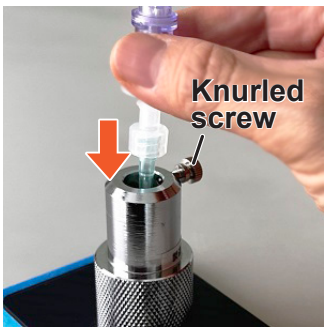
3. Attach the enclosed needle (NN-2138S) onto the fitting.

Turn the needle clockwise to tighten it securely into the back of the fitting.



4. Confirm that the adhesive gel is attached to the center of the base.

If the adhesive gel is not attached at the center, reattach it to be at the center.



5. Set the main unit onto the sponge base.

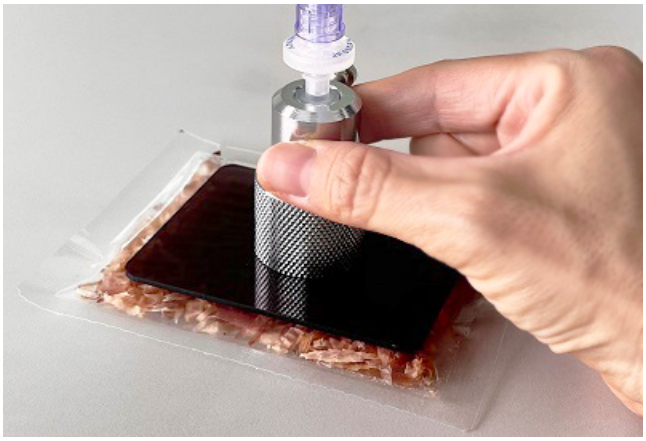
6. Loosen the knurled screw, and insert the needle into the main unit.

Insert the needle fully until you feel it stop.

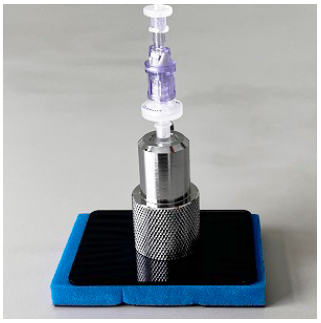
7. Turn the knurled screw clockwise to tighten it.

Even if the tip of the needle does not protrude from the adhesive gel, the adhesive gel crush es and the needle protrudes during actual use.

3. Preparing for measurement



Set the resin plate section of the QUICK SAMPLER onto the center of the sample. The adhesive gel will adhere under the weight of the Sampler , and the needle will pierce the packaging material. Follow the operation methods for the oxygen meter and conduct the measurement.



Set the Sampler on the enclosed sponge base when not conducting a measurement. Align the tip of the needle with the hole on the sponge base before setting the Sampler.

The tip of the needle protrudes slightly from the adhesive gel, so if the Sampler is set down without using the sponge base, the needle could bend and become unusable.

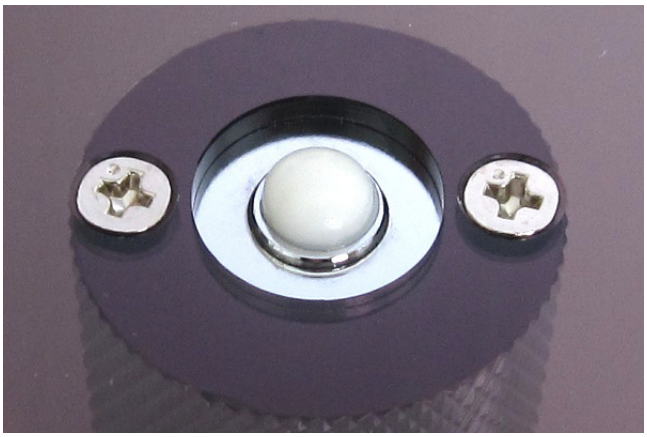
4. Maintenance

If the adhesive gel is contaminated, it can be cleaned somewhat using cellophane tape. The adhesive gel is fixed with double-sided tape. Even if the gel is not contaminated, it should be replaced with a new part if it is peeling, torn, or if the adhesiveness has weakened.

<Replacing the adhesive gel>

1. Remove the needle from the Sampler .

2. Completely wipe off the old adhesive gel.



3. Attach the new adhesive gel to the center section.

It takes about 30 minutes for the adhesive strength to appear after the gel is attached. When possible, wait at least 30 minutes before attaching the needle.

<Replacing the resin plate>

If the resin plate section is damaged, a single resin plate for replacement can be ordered.

Resin plate (for PO-1) Model: PO-PL　* The screws are not enclosed.

<Caution>

- Always remove the needle before replacing the adhesive gel. Replacing the adhesive gel with the needle attached can cause injuries.
- Remove all traces of the double-sided tape for the old adhesive gel so that the double-sided tape for the new adhesive gel will properly adhere to the adhesive surface of the adhesive gel. The residue can be removed completely by wiping with alcohol, etc.
- When the needle is passed through the adhesive gel multiple times, the adhesive gel will deteriorate, the adhesiveness will weaken, and the sample gas may leak. Even if there is no visible contamination, periodically check the state of the adhesive gel, and replace it with a new part if it appears deteriorated.

5. Troubleshooting

Refer to the following table and troubleshoot the situation if a problem is found while using the QUICK SAMPLER. If the symptoms do not improve, please contact the dealer from which you purchased the product.

Symptom	Confirmation method	Action
The oxygen meter reading is high.	Is the adhesive gel contaminated?	Remove the contamination with cellophane tape, etc. If the contamination cannot be removed, replace it with a new adhesive gel. → See section 4. Maintenance.
	Has the needle been passed through the adhesive gel multiple times, causing the seal to drop?	Replace with a new adhesive gel. → See section 4. Maintenance.
	Is the packaging material of the measurement sample rough?	The QUICK SAMPLER cannot be used because the adhesive gel does not adhere properly, and the seal cannot be maintained. Attach the adhesive rubber enclosed with the oxygen meter unit, pierce the needle directly, and measure the sample.
	Is there sufficient gas in the measurement sample?	If there is less than 6 mL, we recommend measuring with the gas collection glass tube (option, sold separately). Please contact Iijima Electronics Corporation for more information.
	Are the bag contents uneven because the gas was suctioned?	Set the QUICK SAMPLER so that the tip of the needle does not contact the contents and measure again.
	<For oxygen meter RO-103S/103KS only> Is the inside of the sample package decompressed?	It may not be possible to suction the sample gas correctly. When using RO-103S, the compression and decompression sampler (model: S-2) is required. * A depressurized sample cannot be measured with RO-103KS.

Please contact the dealer from which you purchased the product if you have any questions or inquiries regarding handling,repairs, or inspections.
Refer to the Iijima Electronics Corporation website for information on troubleshooting, handling, and maintenance. **https://www.iijima-e.co.jp/**

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