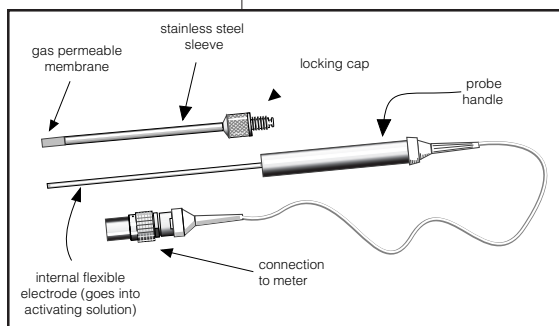




Rejuvenator

For WPI's ISO-NOP nitric oxide sensors

Prolonged use of WPI's popular **ISO-NOP** 2 mm NO sensor may result in a decrease in sensitivity and an increase in sensor response time. This is due to the accumulation of contaminants on the internal platinum electrode. The sensor can often be rejuvenated by using WPI's ISO-NOP Rejuvenator (part # **JUV**). The Rejuvenator is a small battery-operated device that applies an electrical waveform across the sensor, which when immersed in an activating solution, effectively cleans the sensor surface and restores sensitivity.



Activating procedure

1. Unscrew the locking cap from the handle of the ISO-NOP electrode sensor.
2. Remove the locking cap and stainless steel sleeve from the electrode assembly, being careful not to bend the internal flexible electrode.
3. Rinse the flexible electrode twice in clean distilled water.
4. Carefully dry the electrode with a soft tissue.
5. Insert the electrode's input connector (located at the end of the ISO-NOP cable) into the silver socket located on the front panel of the ISO-NOP Rejuvenator.
6. Take the Ag/AgCl reference electrode (part # **RC1T**) included with the Rejuvenator and insert the input pin into the black socket (reference port) on the front panel of the ISO-NOP Rejuvenator.
7. Prepare a small volume (e.g., 50 ml) of activating solution from 0.5 M H_2SO_4 + 0.1 M KCl in distilled water. Place the activating solution into a small beaker ensuring the depth is approximately 1 cm.
8. Immerse the tip of the ISO-NOP electrode assembly together with the reference electrode into the activating solution.
9. Press the black button on the Rejuvenator and wait until the red LED lights turns off (approximately 2 minutes).
10. Remove the ISO-NOP electrode from the activating solution and wash thoroughly in distilled water.
11. Fit a new stainless steel membrane sleeve with fresh electrolyte to the electrode assembly (see "Replacing The Membrane Sleeve" section in the ISO-NO Mark II user's manual).
12. Plug the ISO-NOP into the ISO-NO Mark II and switch on. Alternatively, connect the ISO-NOP to an ISO-NOP Activator (part # **NSA-1**, **NAS-2**, **NAS-3**) and leave the sensor to polarize for at least 8 hours.
13. The sensor should be ready to use when the background current (observed as pA on the instrument panel) has stabilized (i.e., is no longer decreasing).

ISO-NOP Rejuvenator Specifications

Power	9 volt alkaline
Battery Life	250 hours
Dimensions	54 x 94 x 59 mm
Weight	138 grams

World Precision Instruments, Inc.



ISO-NOP Rejuvenator

Warranty

WPI (World Precision Instruments, Inc.) warrants to the original purchaser that this equipment, including its components and parts, shall be free from defects in material and workmanship for a period of one year* from the date of receipt. WPI's obligation under this warranty shall be limited to repair or replacement, at WPI's option, of the equipment or defective components or parts upon receipt thereof f.o.b. WPI, Sarasota, Florida U.S.A. Return of a repaired instrument shall be f.o.b. Sarasota.

The above warranty is contingent upon normal usage and does not cover products which have been modified without WPI's approval or which have been subjected to unusual physical or electrical stress or on which the original identification marks have been removed or altered. The above warranty will not apply if adjustment, repair or parts replacement is required because of accident, neglect, misuse, failure of electric power, air conditioning, humidity control, or causes other than normal and ordinary usage.

To the extent that any of its equipment is furnished by a manufacturer other than WPI, the foregoing warranty shall be applicable only to the extent of the warranty furnished by such other manufacturer. This warranty will not apply to appearance terms, such as knobs, handles, dials or the like.

The foregoing obligations set forth in this paragraph are in lieu of all obligations and liabilities, including all warranties of merchantability or otherwise, expressed or implied or statutory, and state WPI's entire and exclusive liability and purchaser's exclusive remedy for any claim of damages in connection with the sale or furnishing of all equipment, including design, suitability for use, operation, or installation. There are no warranties which extend beyond the description of the face hereof. In no event shall WPI be liable for any special or consequential damages.

Warning: This equipment is not designed or intended for use on humans.

** Electrodes, batteries and other consumable parts are warranted for 30 days only from the date on which the customer receives these items.*

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