

ISO-NOP007 Nitric Oxide Sensor - 7um

Item#: ISO-NOP007

- For use with **Apollo1000**, **Apollo4000**, **TBR4100** and **TBR1025**
- Requires cable **91580** (sold separate)
- Response Time: < 3s
- Lowest Detection Limit: 0.5 nM
- Sensitivity: 1 pA/nM
- Application: Microvessels
- Package of 3

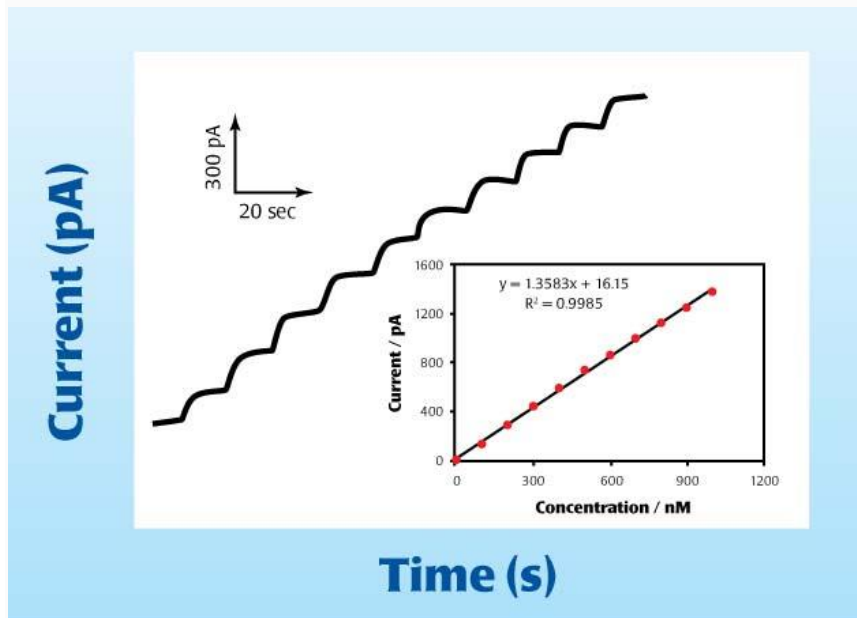
Non-US customers please contact your [distributor](#) for pricing details.

Details

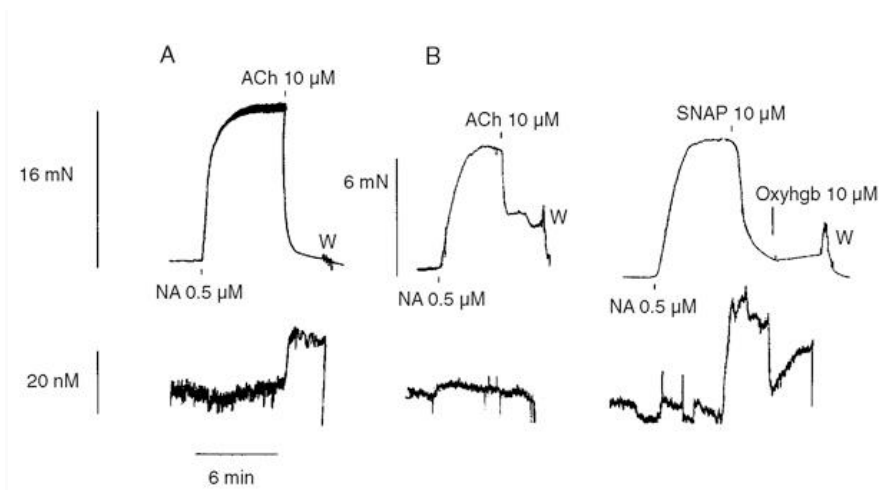
[See the full-size video.](#)

7 micron sensor with exceptional performance

The **ISO-NOP007** has a tip diameter of just 7 microns and a length of 2mm. The response is linear over a wide dynamic concentration range of NO. The design is based on a single carbon fiber coated with WPI's NO-selective membrane. A detection limit of approximately 1 nM NO makes this electrode ideal for use in tissues and microvessels.



The response of a 7µm NO sensor (ISO-NOP007) to successive additions of NO (100nM). Inset shows the linearity of the resulting calibration plot.



Simultaneous measurement of force (top trace) and changes of NO concentration (lower trace) in (A) the rat superior mesenteric artery relaxed with ACh and (B) a small human artery relaxed with ACh and SNAP. In this artery oxyhaemoglobin (oxyHb) partly reversed the increase in NO concentration with only a small change in force. [U. Simonsen, et al., *J. Physiol.*, 1999, **516**: 271-282.]

- Manuals & Resources

[NO Microsensors Instruction Manual](#)

- Specifications

Outside Diameter	7μm
Available Length	2mm
Response Time	< 3 seconds
Lowest Detection Limit/Range	0.5nM
Nominal Sensitivity-New sensor	≥1pA/nM
Baseline Drift	none
Poise Voltage	865mV
Typical Quiescent Baseline Current, 25°C	300pA
Acceptable Baseline Range	200-1500pA
Polarization Time	1+ hours