

MLT1123 Oxygen Microelectrode

(Flow-Thru)

Transducer Series

MLT1123 Oxygen Microelectrode (Flow-Thru)

The Oxygen Microelectrode with a 'T' fitting size of 1/16" (1.5mm) features low oxygen consumption, fast response (<20s) and requires less than a drop. These miniature electrodes are ideal for monitoring oxygen in a continuous flow such as water, blood, urine and other physiological fluids. Requires the O2-ADPT-BNC/DIN O2 Adapter (BNC/DIN) to connect to a PowerLab. Each electrode is supplied with an MLT1124 Membrane Housing Kit consisting of six T- membranes and a bottle of electrolyte solution.



*MLT1123 Oxygen
Microelectrode (Flow-Thru)*



*MLT1124 O2 Membrane Kit
(Flow-Thru, 1/16" Fittings)*

MLT1124 O2 Membrane Kit (Flow-Thru, 1/16" Fittings)

The Membrane Housing Kit is used with MLT1123 Micro-oxygen Electrode (Flow-Through) and includes six T-membranes and a bottle of electrolyte solution.

O2-ADPT-BNC/DIN O2 Adapter (BNC/DIN) (purchased seperately)

Two versions of the O2-ADPT O2 Adapter are available that connects the MLT1123 Oxygen Microelectrode directly to any PowerLab BNC or DIN input respectively. Please select 'differential input' in the Input Amplifier dialog of the LabChart software for the DIN input option.



*O2-ADPT-BNC
O2 Adapter (BNC)*

Another two adapters are available and required for applications when the solutions are oxygenated with 95% oxygen (i.e tissue-organ bath studies). They are the O2-ADPT100-BNC and the O2-ADPT100-DIN.

Application

The MLT1123 Oxygen Microelectrode (Flow-Thru) is designed for applications that require a fast response time and negligible oxygen consumption. The electrode can be used in samples smaller than a drop of water.

Caution

Read "Statement of Intended Use" on our website or in "Getting Started with PowerLab" before use.

Specifications

Response range:	0 to 100% O ₂ Saturation
Response time:	< 20 seconds
Reference electrode type:	Ag
Sensitivity:	1700 pA in air @ 25 °C
O ₂ Consumption:	2.5 x 10 ⁻⁴ µL/hr @ 25 °C
Membrane material:	Teflon®
Membrane barrel diameter	3 mm
Barrel material	acrylic
Flow cell material	polysulfone
Cell volume (T-fittings)	0.011 ml
"T" fitting (size)	1/16"
Total length (probe):	86 mm (3.4")
Lead length:	2 m (6' 7")

All specifications were tested at the time of printing and are subject to change.

Ordering Information:

MLT1123 Oxygen Microelectrode (Flow-Thru)

Includes:

MLT1124 O₂ Membrane Kit (Flow-Thru, 1/16" Fittings)

Requires (purchased separately):

O₂-ADPT-BNC O₂ Adapter (BNC)

O₂-ADPT-DIN O₂ Adapter (DIN)

O₂-ADPT100-BNC O₂ Adapter (100, BNC)

O₂-ADPT100-DIN O₂ Adapter (100, DIN)