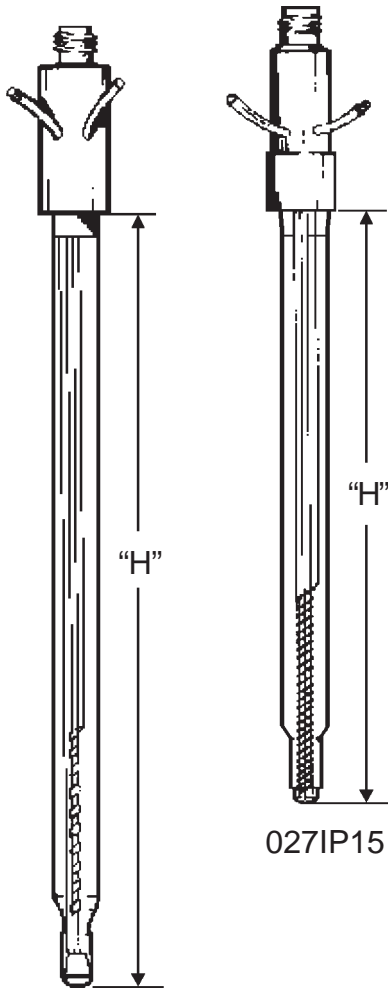


# GLASS BODY DISSOLVED OXYGEN ELECTRODES

2/07



6103 GLENMONT • HOUSTON, TEXAS • 77081  
800/522-7920 • FAX 713/772-4671 • 713/772-6641  
www.VL-PC.com



027BG15  
027NG15

027IP15

This series of steam sterilizable electrodes are designed for economical use. They are constructed very similarly to the standard pH electrode, and have a 10 and 12mm body, and can be ordered with the desired "H" length. The "H" length is determined by the insertion depth on the under side of the fermentor headplate to the tip of the probe. Glass disposable electrodes are available in both polarographic and galvanic styles to fit all requirements.

The glass DO probes are available for laboratory fermentation, where sterilization takes place in a separate autoclave. The disposable Van London - Phoenix Co. Dissolved Oxygen Electrodes are compatible with most common oxygen amplifiers. Glass body oxygen electrodes are non-temperature compensated and are required to be kept at a constant temperature. Calibration must be made at the same temperature as the controlled fermentation. The electrodes feature external filling tubes. Electrolyte can be added during use without removing the electrode from the vessel. The electrode membranes can be replaced very easily. However, some skill is involved in replacing them.

Type	027IP15 Polarographic	027BG15 Galvanic	027NG15 Galvanic
CATHODE	Pt	Ag	Ag
ANODE	Ag/AgCl	Pb	Pb
RESPONSE	98% in 60 seconds	98% in 90 seconds	98% in 90 seconds
STABILITY <sup>1</sup>	Better than 2%	Better than 2%	Better than 2%
TEMPERATURE COMPENSATION	NO	NO	NO
TEMPERATURE RANGE	0-60°C	0-60°C	0-60°C
STERILIZATION TEMPERATURE	130°C	130°C	130°C
RESIDUAL SIGNAL	Less Than 1 nA	0.5 - 1 mV	Less Than 0.4 µA
OUTPUT <sup>2</sup>	50 nA	40 mV ± 5 mV	10-15 µA

<sup>1</sup> = Constant Temperature

<sup>2</sup> = Medium Saturated With Air

## ORDERING INFORMATION

PART NO.	"H" LENGTH	BODY DIAMETER	TYPE
027IP15	"H"-DL	12 mm	Polarographic
*027BG15	"H"-DL	12 mm	Galvanic
027NG15	"H"-DL	10 mm	Galvanic

\* Must be used with 9001094-010U cable.

## MEMBRANE SERVICE KITS AND FILLING SOLUTION

### **PART NUMBER    DESCRIPTION**

M0500T1-K5      Membrane Service Kit K-5 for both glass Polarographic and Galvanic O<sub>2</sub> electrodes. Consists of 10 membranes 1 mil thick and 10 silicone bands.

M0500T2-K5      Membrane Service Kit K-5 for both glass Polarographic and Galvanic O<sub>2</sub> electrodes. Consists of 10 membranes 2 mil thick and 10 silicone bands.

R001068          Polarographic O<sub>2</sub> electrode filling solution, 125 mL.

R001069          Galvanic O<sub>2</sub> electrode filling solution, 125 mL.

## CABLES

For non-temperature compensated O<sub>2</sub> electrodes, used with both Polarographic and Galvanic O<sub>2</sub> electrodes. Standard 3 meter lead.

### **PART NUMBER    DESCRIPTION**

9001091-010B    BNC Connector

9001091-010I    DIN Connector

9001091-010D    Dual Pin Connector

9001091-010U    Banana Plugs

9001091-010T    No Connector

9001091-010CC   Custom cable or for use when customer supplies connector

9001093-010D    Pin Connector. Cable features a load resistor for direct connection to a recorder with mV output. (Approximately 40 mV saturated air / water)



Please contact our Asia Pacific distributor:

# **H2O Rx**

Phone: 0409 784 236 or 0421 795 353

info@h2orx.com.au

[www.h2orx.com.au](http://www.h2orx.com.au)

[Glassdo.pmd]