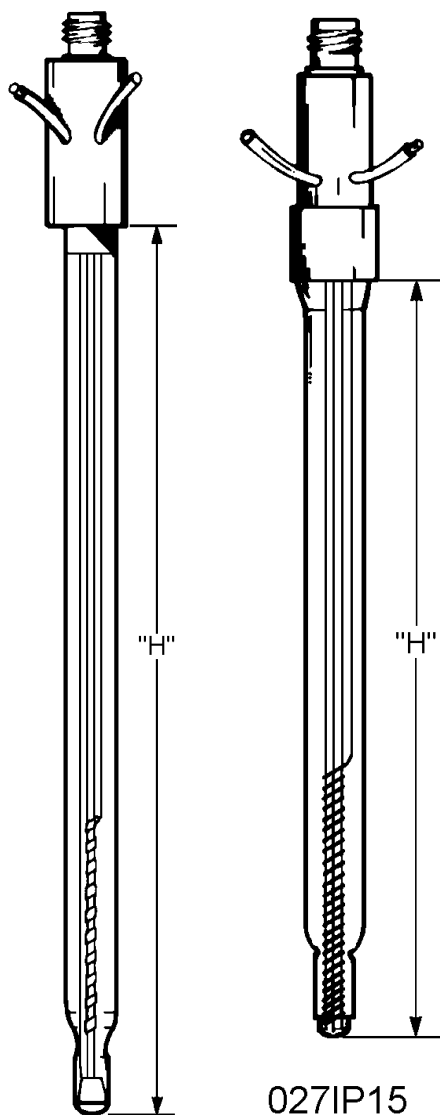


Glass Body Dissolved Oxygen Electrodes



027BG15
027NG15

027IP15

This series of steam sterilizable electrodes are designed for economical use. They are constructed very similarly to the standard pH electrodes, have a 10 and 12mm body, and can be ordered with the desired "H" length. "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 fill all requirements.

The glass DO probes are available for laboratory fermentation, where sterilization takes place in a separate autoclave. The disposable pHoenix 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% 60 Seconds	98% 90 Seconds	98% 90 Seconds
STABILITY ¹	Better Than 2%	Better Than 2%	Better Than 2%
TEMPERATURE COMPENSATION	No	No	No
TEMPERATURE RANGE	0-80°C	0-80°C	0-80°C
STERILIZATION TEMPERATURE	130°C	130°C	130°
RESIDUAL SIGNAL	Less Than 1nA	0.5-1mV	Less Than 0.4µA
OUTPUT ²	50nA	40mV±5mV	10-15µA

¹ = Constant Temperature ² = Medium Saturated With Air



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ORDERING INFORMATION

PART NO.	"H" LENGTH	BODY DIAMETER	TYPE
0271P15	"H"-DL	12mm	Polarographic
*027BG15	"H"-DL	12mm	Galvanic
027NG15	"H"-DL	10mm	Galvanic

*Must be used with 9001094-010U cable.

MEMBRANE SERVICE KITS AND FILLING SOLUTION

PART NUMBER DESCRIPTION

M0500T1-K5	Membrane Service Kit K-S for both glass polarographic and galvanic O ₂ electrodes. Consists of 10 membranes 1 mil thick and 10 silicone bands.
M0500T2-K5	Membrane Service Kit K-S for both glass polarographic and galvanic O ₂ electrodes. Consists of 10 membranes 2 mil thick and 10 silicone bands.
R001068	Polarographic O ₂ electrode filling solution, 125ml.
R001069	Galvanic O ₂ electrode filling solution, 125ml.

CABLES

For non-temperature compensated O₂ electrodes, used with both polarographic and galvanic O₂ 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)



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