

6528 & 7422

PH DOUBLE JUNCTION AND DISSOLVED OXYGEN PROBES



MODEL C AND A

pH & O₂



pH double junction probe 6528 have a rugged design and utilises a double junction reference system to minimise the effects of contamination due to clogged pores or ingress of sample. Probe is designed as a low power instrument and includes built-in conditioning electronics for direct connection to a data logger.

The 6528 pH probe consists of a pH sensor with a voltage output that varies proportionately to the hydrogen ion activity between a reference electrode and an electrode immersed in an alkaline (basic) or acidic solution.

These advanced electrodes feature proven flat tip technology which virtually eliminates deposits that can foul the electrode, significantly reducing necessary maintenance.

Each electrode has a built-in potential matching pin. With this feature, electrode fouling due to ground loop current through the reference of the sensor is a thing of the past. These electrodes have been engineered with a replaceable battery to power the amplifier. This feature adds life to the electrode and aids in troubleshooting.

The dissolved oxygen probe 7422 is a galvanic measuring element which produces a millivolt output proportional to the oxygen present in the medium it

is placed in. It consists of an upper part with cathode, anode and cable, and a cap with membrane and electrolyte.

Oxygen diffuses through the membrane onto the cathode, where it reacts chemically and then combines with the anode. This chemical process develops an electric current, which flows through a built-in resistor. The resistor converts the current (microamps) into millivolts. This millivolt signal is led to the data logger via a two core cable.

The probe is virtually maintenance free, requiring only that its membrane be kept reasonably clean. The anode remains fully active through its lifetime of several years. The membrane is very robust and can be wiped clean with a cloth or paper. It is recommended that the membrane be cleaned from time to time to ensure maximum reliability.

6528 SPECIFICATIONS

PH DOUBLE JUNCTION PROBE	
MATERIAL:	PVDF Body
SIZE:	Diameter 25 x Length 141mm
WEIGHT:	400g including cable
PH RANGE:	0-13
JUNCTION:	Double
JUNCTION TYPE:	Teflon
ELECTROLYTE:	Polymer
PRESSURE:	6bar (87 PSI)
TEMPERATURE RANGE:	-5° to 80°C
CABLE:	5m of 2 core

7422 SPECIFICATIONS

DISSOLVED OXYGEN PROBE	
MATERIAL:	PVDF Body
SIZE:	Diameter 58 x Length 59mm
WEIGHT:	450g including cable
RANGE:	0-50mV (2.5 to 5mV per ppm mg/l)
OUTPUT IMPEDANCE:	1kΩ
TYPE:	Galvanic cell, self-polarising, self-temperature-compensating
TEMPERATURE RANGE:	0 to 40°C
PRESSURE:	Submersible to 100m
CABLE:	7m