



LAND # 13150
5.5" x 1" dia. 1/4 lb.



COMBINATION SEA WATER
AND LAND KIT # 13175



SEA WATER # 13100
8" x 1" dia. 3/4 lb.

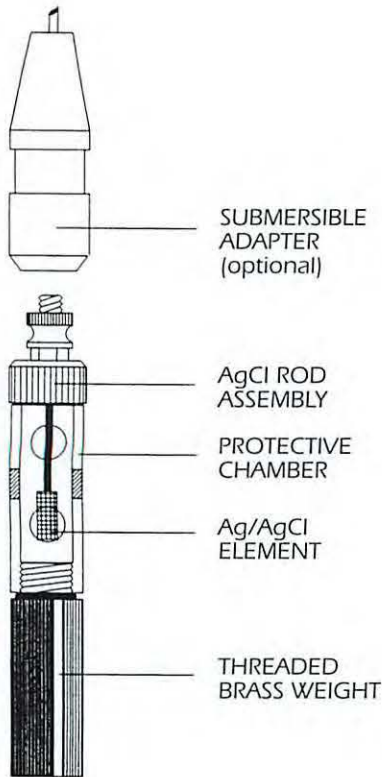
SILVER CHLORIDE ELECTRODE KITS

ADVANTAGES:

- Combination Kit contains 8 foot submersible adapter (longer lengths available)
- The Ag/AgCl electrode is an ideal reference electrode for high chloride content applications
- Sea Water
- Tidal Basin
- Marsh Land
- Concrete

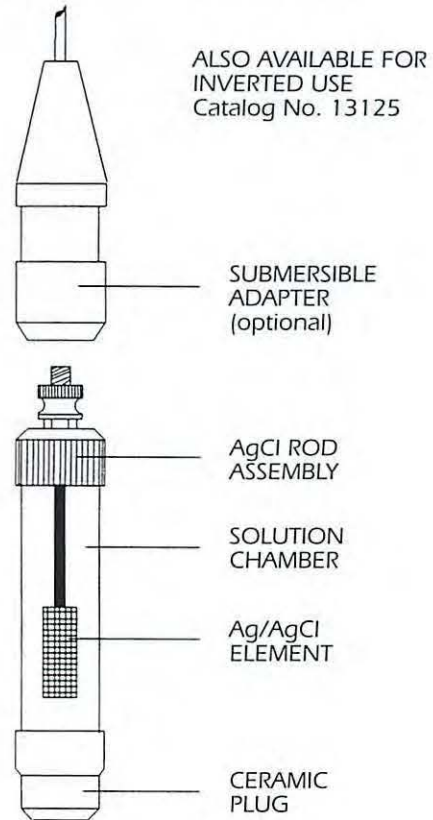
MODEL Ag/AgCl SEA WATER # 13100

Sea water kit is used in conjunction with an M.C. Miller Co. submersible adapter to measure the cathodic protection potentials. The sea water in which the electrode is immersed is the electrolyte. Varying salinity causes a change in potentials as indicated in the chart below.



MODEL Ag/AgCl LAND # 13150

The Land Kit is supplied with a standard filling solution (4.5 M KCl) which acts as the electrolyte. This is a known electrolyte which can be used where the salinity of the sea water is unknown, as in brackish, fresh water / sea inlets. This is ideally suited for areas where chlorides would contaminate the standard copper sulphate electrode. These areas would include concrete bridge decks (de-icing salts), swamps and marsh lands.



Ag/AgCl/Sea Water Cu/CuSO₄

ELECTRODE @25°C	Sea Water 20 Ohm-cm	Brackish 100 Ohm-cm	Brackish 500 Ohm-cm
Cu/CuSO ₄	0.85 V	0.85 V	0.85 V
Ag/AgCl	0.79 V	0.83 V	0.88 V

Standard Potentials to Hydrogen

Temperature	10°C	25°C	35°C
Ag/AgCl/KCl 0.1 M	298 mV	288 mV	278 mV
Ag/AgCl/KCl 1.0 M	231 mV	222 mV	216 mV
Ag/AgCl/KCl 3.5 M	215 mV	205 mV	197 mV
Ag/AgCl/KCl Satd.	214 mV	199 mV	189 mV
Cu/CuSO ₄ / CuSO ₄ Satd.	330 mV	316 mV	303 mV

MCM
MCMILLER Co.
BUILT TO TAKE IT.

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