MC Miller

Corrosion Monitoring Equipment

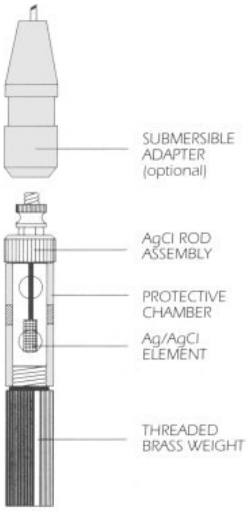
Silver Chloride Electrode Kits
(Cat. # 13175 Land and Sea)

Advantages
Combination Kit contains 8-foot submersible adapter with longer lengths available.
The Ag / AgCl electrode is an ideal reference electrode for high Chloride content applications

Applications
Sea Water Tidal Basin Marsh Land Concrete

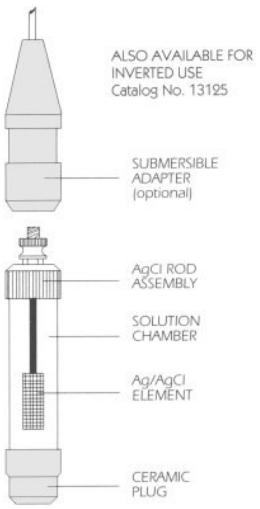
Submersible weight for RE-5 and RE-5C

Model Ag/AgCl
Sea Water # 13100



The seawater kit is used in conjunction with an M. C. Miller Co., Inc. submersible adapter to measure the cathodic protection potentials. The seawater 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 marshlands.

Vic/Tas/SA	NSW	NZ	QLD/NT	WA
03 9993 7500	02 9663 2322	09 414 5080	07 3890 8533	08 9248 8999

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Ag / Ag / Cl / Sea Water Cu / CuSO4

Electrode @25°C	Sea Water 20 Ohm-cm	Brackish Water 100 Ohm-cm	Brackish Water 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	289 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 saturated	214 mV	199 mV	189 mV
Cu / $CuSO_4$ / $CuSO_4$ saturated	330 mV	316 mV	303 mV

Due to ongoing research and development, specifications are subject to change without notice.

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