

**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

	<p><b>Submersible weight for RE-5 and RE-5C</b></p>
<p><b>Model Ag/AgCl Sea Water # 13100</b></p> <p><b>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.</b></p> <ul style="list-style-type: none"> <li>SUBMERSIBLE ADAPTER (optional)</li> <li>AgCl ROD ASSEMBLY</li> <li>PROTECTIVE CHAMBER</li> <li>Ag/AgCl ELEMENT</li> <li>THREADED BRASS WEIGHT</li> </ul>	<p><b>Model Ag / AgCl Land # 13150</b></p> <p><b>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.</b></p> <ul style="list-style-type: none"> <li>ALSO AVAILABLE FOR INVERTED USE Catalog No. 13125</li> <li>SUBMERSIBLE ADAPTER (optional)</li> <li>AgCl ROD ASSEMBLY</li> <li>SOLUTION CHAMBER</li> <li>Ag/AgCl ELEMENT</li> <li>CERAMIC PLUG</li> </ul>

Vic/Tas/SA 03 9993 7500	NSW 02 9663 2322	NZ 09 414 5080	QLD/NT 07 3890 8533	WA 08 9248 8999
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All written data and statements herein are provided in good faith and believed to be reliable and appropriate at the time of drafting this document. However it is given without implied or express guarantee. Potential uses are urged to trial and /or conduct conformity test of the product to deem its suitable in application for a particular end use prior to purchase.

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### Corrosion Monitoring Equipment

#### Ag / Ag / Cl / Sea Water Cu / CuSO<sub>4</sub>

Electrode @25°C	Sea Water 20 Ohm-cm	Brackish Water 100 Ohm-cm	Brackish Water 500 Ohm-cm
Cu / CuSO <sub>4</sub>	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 <sub>4</sub> / CuSO <sub>4</sub> saturated	330 mV	316 mV	303 mV

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

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