

REFERENCE CELLS

Portable Reference Cells

Rugged Cells for Potential Surveys

Portable reference cells can be used to conduct potential measurements on all types of buried and submerged structures. Corrpro distributes a full line of portable reference cells with proven track records for durability and ease of use. The cells are made with solid copper elements, which are housed in impact-resistant plastic tubes. To ensure the copper elements remain electrically stable, copper sulfate crystals are provided with each cell. The crystals surround the copper elements in the plastic tube, and when mixed with distilled water, create a supersaturated solution of copper sulfate to reduce ion intermixing. A window on each cell allows the operator to observe the water level of the crystallized solution. If the level is insufficient, water or copper sulfate crystals can be added simply by removing the end cap found on each cell.

To obtain accurate potential readings, a portable reference cell must be able to make low-resistance contact with an electrolyte. The cells distributed by Corrpro achieve superior electrical contact to soils, water, and concrete through a special porcelain plug. The plugs are porous and remain moist. They are available in different shapes to address specific applications, and when not in use, can be protected by plastic caps, which are provided.



Typical Applications

Corrpro portable reference cells can be used to take electrical potentials on buried structures, such as pipelines, underground storage tanks, and reinforced concrete bridges and parking garages. Submersible adapters are also available to permit their use in water tanks and other vessels. To obtain the most accurate potential readings, the right cell configuration should be selected for a particular environment. The cells should be protected from freezing, and should not be used in areas with high chloride ion concentrations.

**Authorized Distributor for the
Following Manufacturers**

M.C. Miller
Tinker & Rasor



Corrpro Companies Europe Limited

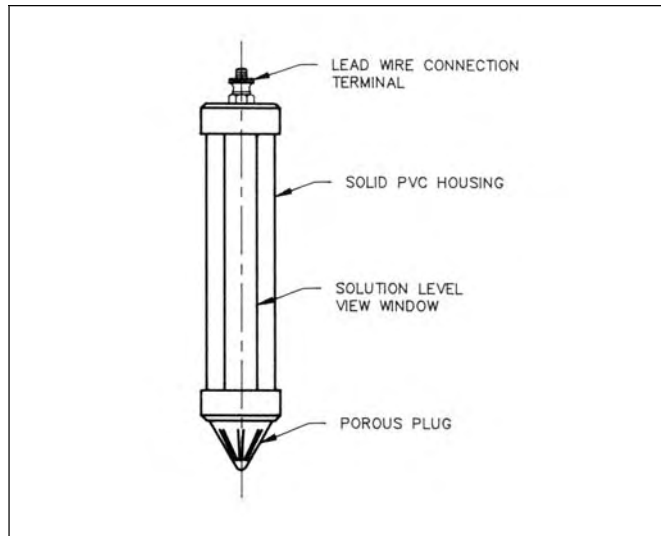
Adam Street, Bowesfield Lane, Stockton on Tees, TS18 3HQ
Telephone: (01642) 614106 (8 lines) Telex: 587388
Fax: (01642) 614100 E-mail: ccel@corrpro.co.uk

Portable Reference Cells

Ordering Procedure

Corrpro is an authorized distributor for a number of quality cell manufacturers. To order the right cell for your particular application, indicate that you need a portable reference cell, and specify the quantity desired, the cell brand, and the model. An example is provided to help illustrate this process.

Ordering Procedure Example	
ITEM	EXAMPLE
Quantity	5
Product	Portable Reference Cell
Brand	Tinker & Razor
Model	6A



Product Specifications

MANUFACTURER	MODEL	NOMINAL DIMENSIONS		DRY WEIGHT		PLUG CONFIG.
		Ø	LENGTH	oz.	(g)	
M.C. Miller	RE-5	1.38 (3.5)	6.0 (15.2)	4	(113.4)	Flat
	RE-5C	1.38 (3.5)	6.75 (17.2)	5	(141.8)	Cone
	RE-7	1.0 (2.5)	8.5 (21.6)	5	(141.8)	Flat
	RE-5/U	1.38 (3.5)	6.0 (15.2)	4	(113.4)	Flat
	RE-3A	3.0 (7.6)	5.0 (12.7)	16	(453.6)	Flat
Tinker & Razor	2A	0.38 (0.97)	5.75 (14.6)	1	(28.35)	Flat
	6A	1.25 (3.2)	6.0 (15.2)	6	(170.1)	Cone
	6B	1.25 (3.2)	7.0 (17.8)	6	(170.1)	Flat
	8A	1.25 (3.2)	8.0 (20.3)	8	(226.8)	Flat
	8B	1.25 (3.2)	9.0 (22.9)	8	(226.8)	Cone
	3A	3.0 (7.6)	5.0 (12.7)	16	(453.6)	Flat



Corrpro Companies Europe Limited
 Adam Street, Bowesfield Lane, Stockton on Tees, TS18 3HQ
 Telephone: (01642) 614106 (8 lines) Telex: 587388
 Fax: (01642) 614100 E-mail: ccel@corrpro.co.uk