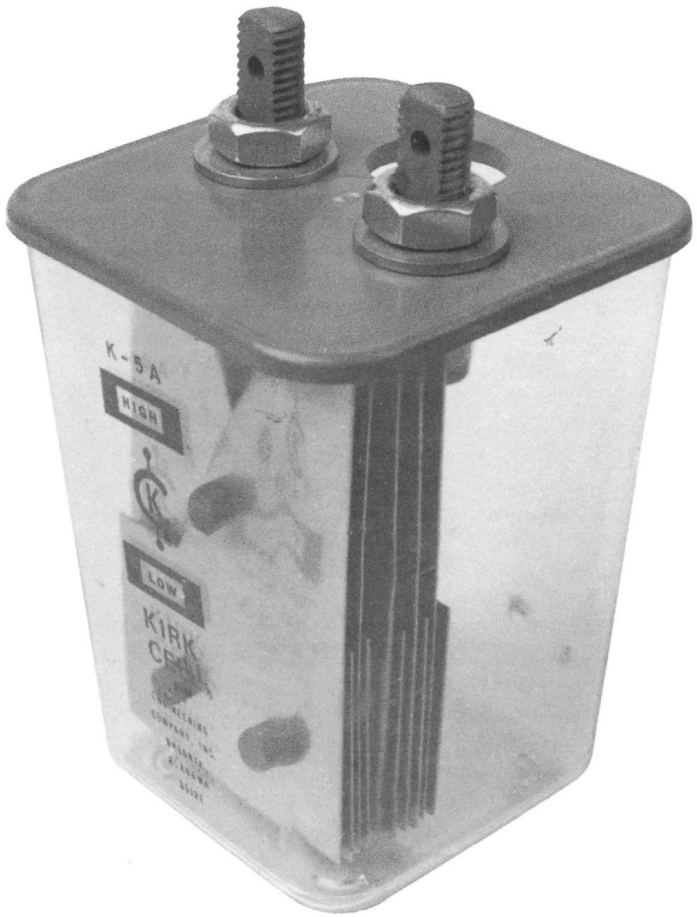
www.kirkcell.com

The Kirk Cell is a passive device that is essentially an electrochemical safety switch. The magnitude and direction of the current flow through the Kirk Cell will depend upon the EMF applied across the cell terminals.

As the applied EMF across the cell terminals increases, current flow through the ceil will increase in general agreement with the data published on the back page of this brochure. Actual current flow will vary with ambient conditions; including but not limited to: temperature, solution concentration and age.



K-5A Kirk Cell ®

REV. 1-97

K-5A KIRK CELL PERFORMANCE TABLE

Delta E Across Cell Terminals (Volts)	Resultant Current Flow	Apparent Internal Impedance (Ohms)
	DIRECT CURRENT DATA	
0.39	100 ua	3900
0.64	1 ma	640
0.71	2 ma	355
0.785	3 ma	262
0.84	4 ma	210
0.97	5 ma	194
1.20*	7 ma	200
1.26	8 ma	180
1.30	9 ma	163
1.34	10 ma	148
1.42	15 ma	142
1.48	20 ma	99
1.70	25 ma	85
1.72	30 ma	69
1.73	40 ma	58
1.73	50 ma	43
1.74	100 ma	35
1.77	500 ma	18
1.87	1 A	3.7
1.90	5 A	1.9
1.99	10 A	0.4
2.10	50 A	0.21
2.85	100 A	.029
4.85	500 A	0.0076
	ALTERNATING CURRENT DATA	
0.30	500 ma	0.60
0.38	1 A	0.38
0.67	5 A	0.13
0.90	10 A	0.09
1.15	50 A	0.02
1.50	100 A	0.015
3.80	500 A	0.0076

* Leakage threshold

The Kirk Cell is not an arc-making device and may be used where a combustible atmosphere could be present as long as the cell's rating is not exceeded.

The Kirk Cell must be vented to atmosphere but shielded from direct sunlight or rainfall.

The 5 Series Enclosures will protect a K-5A Kirk Cell from direct contact with sunlight or rainwater. The galvanized or polyurethane / epoxy finish case will withstand spillage of the caustic electrolyte and / or oil seal. Add code letter P after enclosure model number and specify color of finish on Purchase Order for painted finish. Expect several weeks delay in shipment for a painted finish as this is not a stock item. The 5-2L/2 Dual Enclosure will provide for the installation of two K-5A Kirk Cells.

Lead wire entrance and exit on each side of enclosure is in line with the cell terminals. Three quarter inch conduit knockouts are provided with 5-1 through 5-3 and 5-6L Enclosures. One inch conduit hubs are provided with 5-4 Enclosure. 5-5 Enclosures have no conduit openings. Conduit runs are provided in the concrete pad by the installer. Write for installation drawing before pouring pad.

Easy access to the interior is by removal of one or more sheet metal screws or padlocks, depending upon the enclosure. Insect proof vent and drain holes or fittings provided with each enclosure.

	Height		Width		Depth		Mounting Centers	Enclosure Rating
	Basic	Overall	Bottom	Top	Bottom	Top		
K-5A	6 3/4"	8 1/4"	4 5/16"	5 1/4"	4 5/16"	5 1/4"	X	X
5-1	10 3/4"	Same	6 1/4"	8 1/4"	6 1/4"	6 3/8"	6"	NEMA 3R-CV
5-1L	10 3/4"	Same	6 1/4"	8 1/4"	6 1/4"	6 3/8"	6"	NEMA 3R-CV
5-2L	10 3/4"	Same	6 1/4"	8 1/4"	6 1/4"	6 3/8"	6"	NEMA 3R-CV
5-2/2	10 1/4"	Same	14"	16"	6 1/2"		(4) 3/8" ϕ 3" Side	NEMA 3R-CV
5-3L	12"	Same	8"	10"	6 1/4"	6 3/8"	6"	NEMA 3R-CV
5-4L	12 1/4"	14"	8 1/4"	Same	6 3/8"	Same	13 1/2"	NEMA 3S
5-5	10"	Same	14 5/8"	Same	8 3/8"	Same	PAD	NEMA 3R-CV
5-6L	10 3/4"	Same	6 1/4"	8 1/4"	6 1/4"	6 3/8"	6"	NEMA 3R-CV

B-5 Adapter Bracket is available to bolt an enclosure to the sloping leg of a metal transmission tower leg and maintain the cell in a level position. Specify tower leg compound angle (available bolt hole diameters and mounting centers, where they exist) on your purchase order.

We will build special enclosures or other items to customer specifications. Write or call the factory for quotations on price and delivery.

If you require a specialty item, not directly related to our product line, we may be interested in producing it.