

Holiday Detectors

For Coating Inspection

Coatings offer significant corrosion protection to buried metallic structures. However, if a coating is poorly applied and contains pinholes, voids, or holidays, accelerated corrosion attack can occur. To inspect the quality of coatings, Corrpro distributes holiday detectors manufactured by the Tinker & Rasor Company. These detectors locate minor coating imperfections by charging pipelines, tanks, and other metallic structures with high DC voltage. Tests are performed by connecting the units to the structure, and scanning the coated surface with a specially designed electrode. When the probe passes over a coating flaw, the operator is alerted by an audible signal.

Tinker & Rasor holiday detectors are completely portable and battery powered. They can produce voltage levels ranging from 67.5-35,000 volts. Because of this, testing can be performed on numerous types of coatings, from thin-film epoxies, vinyls, and polyethylenes, to hot-applied coal tar, asphalt, and heavy mastic materials. Each unit is supplied with electrode test probes and ground lead wire. For pipeline testing, adjustable coil spring electrodes are available. These electrodes can test pipelines from 2 to 36 inches in diameter. Silicone brush and cellulose sponge probes are offered for testing on other types of structures. All the holiday detectors distributed by Corrpro are also furnished with compact carrying cases, battery chargers, and operator belts.



Typical Applications

Holiday detectors are designed to locate coating flaws. They should be used on newly coated metallic structures so that repairs can be made prior to installation. Because these detection devices can produce high voltage levels, care should be taken to prevent electrical shock. The units should not be used in the rain or in the presence of high moisture or humidity.



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Ordering Procedure

Corrpro stocks a full line of holiday detectors. To order the right instrument for your particular application, indicate that you need a Tinker & Rasor holiday detector, and specify the model and quantity desired. An example is included to help illustrate this process.

Ordering Procedure Example	
ITEM	EXAMPLE
Quantity	1
Product	<i>Holiday Detector</i>
Brand	<i>Tinker & Rasor</i>
Model	<i>AP-W</i>
Electrode	<i>6 in. Coil Spring</i>
Power Pak Voltage	<i>900-3,400 volts</i>

Holiday Detector Specifications								
MODEL	VOLTAGE OUTPUT (VOLTS)	NOMINAL DIMENSIONS in. (cm)			DETECTION TYPE	WT. lbs. (kg)	POWER SOURCE	ELECTRODE
		L	W	D				
AP-W*	900-3,400	19.75 (50.2)	8.5 (21.6)	12.25 (31.1)	High Voltage "Spark Type"	32.0 (14.5)	Nickel Cadmium Battery	Coil Spring
	3,500-10,000							
	6,000-16,000							
	12,000-35,000							
M-1	67.5	5.5 (13.9)	3.5 (8.9)	20 (5.1)	Nondestructive Low Voltage	8.0 (3.6)	67.5 Volt "B" Battery	Cellulose Sponge
M1/AC	67.5	2.0 (5.1)	14 (35.6)	8 (20.3)	Nondestructive Low Voltage	9.0 (4.1)	67.5 Volt "B" Battery	Cellulose Sponge

*Interchangeable Pulse Transformers permit various output levels.



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