

Electrical Insulation Testers

For Checking Electrical Insulation

Isolation flanges and dielectric unions are commonly used on cathodically protected gas, oil, and water pipelines to regulate current flow. To ensure these devices are working properly, they should be routinely tested. Corrpro offers several types of testing meters for this purpose that utilize electromagnetic radio signals. Unlike AC or DC current, the radio signals produced by the meters do not conduct through the pipe, but instead travel along the pipe's surface. This permits detection of even very low DC-resistance levels. When performing an isolation test, oscillators in the meters transmit the radio frequency signals through a metal probe placed on one side of the flange or union. If effective isolation is present, a strong radio signal will be detected by the metal probe located on the opposite side of the flange. A weak signal indicates the presence of an electrical short. The exact location and severity of a short can be determined by moving the metal probe and repeating the testing procedure. This is especially useful for locating defective washers on an isolation flange.

Corrpro insulation testers are durable and easy to use. They are supplied in handy carrying cases, and can withstand the rugged abuse that is often associated with field testing. The testing units are powered by replaceable batteries. When the meters are turned on, operators are alerted if battery levels are low.



Typical Applications

Insulation testers are used to verify that isolation exists between two sections of metallic pipe. These testing instruments are often used on both newly installed and existing isolation flanges, dielectric unions, and other isolation devices. The meters distributed by Corrpro are extremely accurate, and sensitive enough to detect even small DC shorts. They can be used to check electrical isolation on flanges with diameters ranging in size from 1/4 to 96 inches. The maximum voltage that can be measured by the meters is 50 volts.

Authorized Distributor for the Following Manufacturers
Gas Electronics Tinker & Rasor



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Ordering Procedure

Corrpro distributes several different isolation testers. To order the right instrument for your particular application, indicate the brand and model, and specify the quantity desired. An example is included to help illustrate this process.

Ordering Procedure Example

ITEM	EXAMPLE
Quantity	1
Product	Insulation Tester
Brand	Gas Electronics
Model	601

Insulation Tester Specifications

MFG.	MODEL	NOMINAL DIMENSIONS in. (cm)			WT. lbs. (kg)	POWER SOURCE	APPLICATIONS
		L	W	D			
Gas Electronics	601	6.25 (15.9)	3.75 (9.5)	3.25 (8.3)	2.0 (0.9)	2 "C" Cell Batteries	Direct Insulation Testing
	702	6.0 (15.2)	4.0 (10.2)	3.25 (8.3)	2.0 (0.9)	2 "D" Cell and 2 "AA" Cell Batteries	Insulation Testing From Remote Locations
Tinker & Rasor	RF/IT	8.0 (20.3)	4.25 (10.8)	3.0 (7.6)	3.0 (1.4)	6 "AA" Batteries	Direct Insulation Testing

