MODEL CAL-100

Dynamic Spark Test Calibrator

- Measures sensitivity of AC, DC, High Frequency and Impulse spark tester.
- >> Tests completed in seconds.
- Performs tests required by NEMA, BSI and UTE.
- >>> Optional electrostatic voltmeter calibrates voltages to 30KV

Checking your spark tester's performance is no longer just a matter of voltage calibration. Numerous standards, including NEMA, BSI, and UTE list precise tests for measuring such elements as fault detection sensitivity, operating load, and ouput current.

In response to these requirements, Clinton has developed the Model CAL-100 Dynamic Spark Test Calibrator. This versatile system can be used to calibrate and test virtually every type of spark tester in use.

Each test is simple to perform. For example, to carry out a sensitivity test, you would:

- >>Consult the specification for the required current, dwell time, and gap spacing, etc.
- Connect the spark tester to the CAL-100 patch panel to replicate the specified current using a capacitive or resistive load.
- Insert a stylus representing the required dwell time and adjust gap spacing with the built-in micrometer.

 \gg Set the dials and switch the CAL-100 on.

Within seconds, the test is done and you know if your spark tester has passed. The optional eelctrostatic voltmeter not only calibrates AC, DC and high frequency spark testers; positive and negative peak voltages of impulse spark testers may be measured using the peak rectifier.









MODEL CAL-100 SPECIFICATIONS

CAL-100

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	Maximum Input Test Voltage:	Maximum Input 1
	D.C	D.C
	A.C	A.C
	Impulse20KV Peak Impulse.	Impulse
		Test Votage Rang
	Maximum Input Frequency 5kHz.	
	Maximum Input Current	Maximum Input (
	Capacitive Loads	Capacitance
	Resistive Loads	Maximum Input I
	Gap SpacingAdjustable in hundredths of millimeters.	
	Spark Gap	
	Rotational Speeds1 or 10 revolutions per second.	
	Dwell Times50 microseconds to 25 milliseconds.	Insulation Resista
	Dimensions 19.0"W x 13.0"D x 10.0"H (483 mm W x 330 mm D	Dimensions
	x 254 mm H).	
	Weight	Weight
	Power Requirements120 or 240VAC 2 amps (selectable).	

ESH-26 Electrostatic Voltmeter (optional, purchased seperately) Test Voltage: full scale used.8 to 10 pF. for each voltage setting. Frequency 600 kHz. at 5KV rms. 300 kHz. at 10KV rms. 240 kHz. at 15KV rms. 180 kHz, at 20KV rms. 216 mm H.)



Specifications subject to change without notice. 07/04 EN