

Dear Client

Being leaders in the cable and wire manufacturing industry you are aware that Spark Testing of insulated conductor forms a critical part of the manufacturing process to ensure superior quality products with the following advantages:

- Better Quality Control
- Reduced Scrap
- Higher Profitability

Thus the reason for SABS including it as a routine test in the specifications for low voltage cable and wire.

GMCEO Engineering Services, acting as Agents for Clinton Instrument Company from the USA, the world leader in Spark Tester Manufacturing are committed to supply, repair and calibrate these units. To show our commitment we have invested in Clinton's STCAL Spark Test Calibration System:



High- and low-frequency voltmeter

Sensitivity Module

This modular calibration system allows us to calibrate AC mains spark testers up to 30kV, high frequency units to 15kV and DC spark testers to 40kV. The system consists of a separate high- and low-frequency voltmeter, Sensitivity Module and a Windows-based tablet with connecting cables.

The system generates a certificate of calibration suitable for download, printing and storage in your PC. The certificate of calibration will have 3 sets of data:

- 1) As found readings
- 2) Calibration data
- 3) As left readings

The SM – Sensitivity Module has a rotating spark gap that controls arc duration and gap distance. By selecting the type of test to be performed, the SM displays the detection current and the required number of controlled faults the spark tester must identify to meet the norm. After the test, the SM fault count can be compared to the faults counted by the spark tester to determine its conformity with the specification.

Certificate of Calibration											
Certificate No. HA1234@4162014											
Equipment Owner: Name: Clinton Instrument Company Address: 295 East Main Street Clinton, CT 06033 USA			Calibration Service Provider: Name: Clinton Instrument Company Address: 295 East Main Street Clinton, CT 06033 USA			Equipment Manufacturer: Name: Clinton Instrument Company Model: HF-15A Description: 15KV High Frequency Spark Tester Electrode Model: EC-12 Unit Serial Number: HA1234 ID Number: 80001			Calibration Performed at: Name: Clinton Instrument Company Address: 295 East Main Street Clinton, CT 06033 USA		
Date of Calibration: 4/16/2014 3:59:24 PM						Temperature: 24.3 C			Humidity: 32.1%		
Calibration Data											
As Found Readings				Normal				As Left Readings			
Output Voltage	Actual	Result	Normal Voltage	On Range	Acceptable Min	Acceptable Max	Actual Voltage	Result	Acceptable Min	Acceptable Max	Result
0.00	0.000	PASS	0.00	15.0	0.99	1.01	0.00	PASS	0.99	1.01	PASS
3.0	2.998	PASS	3.0	15.0	2.980	3.020	3.006	PASS	2.980	3.020	PASS
6.0	5.913	FAIL	6.0	15.0	4.960	5.040	5.911	FAIL	4.960	5.040	FAIL
9.0	8.022	PASS	9.0	15.0	7.960	8.040	8.020	PASS	7.960	8.040	PASS
12.0	12.024	PASS	12.0	15.0	11.960	12.040	12.022	PASS	11.960	12.040	PASS
15.0	14.987	FAIL	15.0	15.0	14.920	15.080	14.985	FAIL	14.920	15.080	FAIL
Condition as Received in Calibration						Condition as Left in Calibration					
Standards Used											
Meters	Serial No	Manufacturer	Model	Calibration Authority	Traceability No						
HFVM	1019A-0005	ES1740013	ES1740014	XXX-000-000X							
The calibration of the equipment identified here has been checked against Measurement Standards (Reference) maintained by The Clinton Instrument Company. The accuracy of these standards is traceable to the national standards at the National Institute of Standards and Technology (NIST) as defined by (NIST) type measurements.											
Calibration Technician: J.J. Smith											

Sample Calibration Certificate

Take note, with this modular calibration system we can also test and calibrate other makes and models of spark testers.