

MODEL DC-10A & DC-20A

Digital D.C. Spark Tester

- >> Reliable D.C. spark testing
- >> For remote or custom-made fault sensors
- >> Available in 10KV & 20KV models
- >> Test voltages from 500v
- >> Current limited for operator safety
- >> CE Approved



DC-10A

The DC-A Series of Digital D.C. Spark Testers provides reliable spark testing in applications where remote or custom-made fault sensors are required. Available in 10KV and 20KV models, the unit delivers a D.C. test voltage to the high voltage input of the electrode through a connecting cable that can be as long as 200 feet. Test voltages are variable from 500v and are current-limited for operator protection. A safety interlock cable assembly is also included to insure that the test voltage on the fault sensor is removed when its protective guard is lifted.

Digital test voltage and fault count displays are vivid and easy to read. Wiring and setup are done externally—there is no need to open up the unit. Membrane switches on the display panel allow the operator to configure the spark tester in a variety of modes and to set the length of time that process control relay contacts are energized after a fault occurs. Relay contacts are accessible on a rear panel connector for easy wiring to external alarms, lights or machines that are to be controlled by



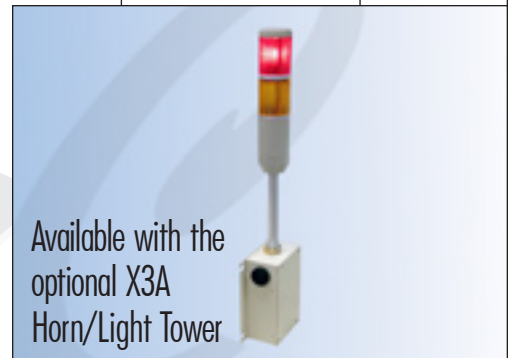
DC-10/20A Back Panel



DC-10/20A Front Panel

the spark tester. The standard RS-485 serial interface can receive and respond to digital commands. Spark tester voltage can be set or verified, the fault count and interlock status can be monitored, and many other tasks can be performed by computer or PLC.

The spark tester meets safety standard IEC-1010 and is CE approved.



Available with the optional X3A Horn/Light Tower

Clinton
INSTRUMENT COMPANY

DC-10/20A SPECIFICATIONS

Voltage Test Range

DC-10A 500v to 10KV (minimum voltage varies on electrode design.)

DC-20A 500v to 20KV (minimum voltage varies on electrode design.)

Output Current:

DC-10A 1.5 milliamperes maximum.

DC-20A 0.75 milliamperes maximum.

Fault Indication red 3-digit 14.2mm high LED display; amber indicating light.

Fault Response Less than 1 millisecond.

Fault Resolution 1.5 milliseconds.

Detection Sensitivity 600 μ a. at 5KV.

Operating Modes Continuous HV/Remove HV on Fault. Momentary Process Control/Latch until Reset.

Electrode/Sensor STBG-01: 7.25"W, 9.60"D, 8.63"H (184.15, 243.93, 219.08mm)
Weight: 12lbs.

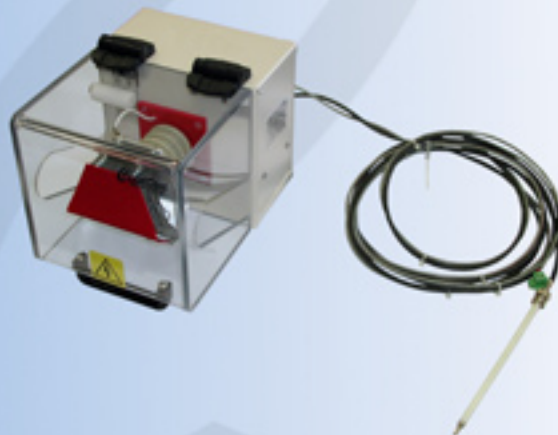
Process Control Relay, form "C" contacts rated 1 amp max @ 240VAC, 2 amps max @ 120VAC, for both NO and NC circuits.

Power Requirements 100 to 240V AC 1 amp, 49-61 Hz. Power supply is self adjusting.

Communications RS-485 Serial Interface; Analog (optional); Ethernet (optional); Profibus (optional).

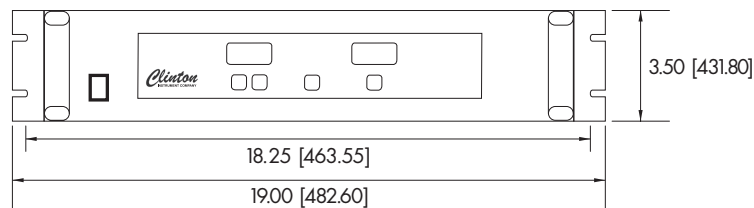
Safety Designed to IEC-1010.

STBG-01 with High Voltage & Interlock Connecting Cables

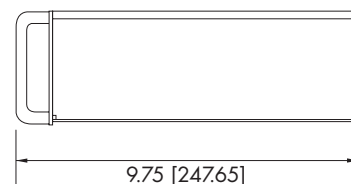


DC-10/20A Control Unit

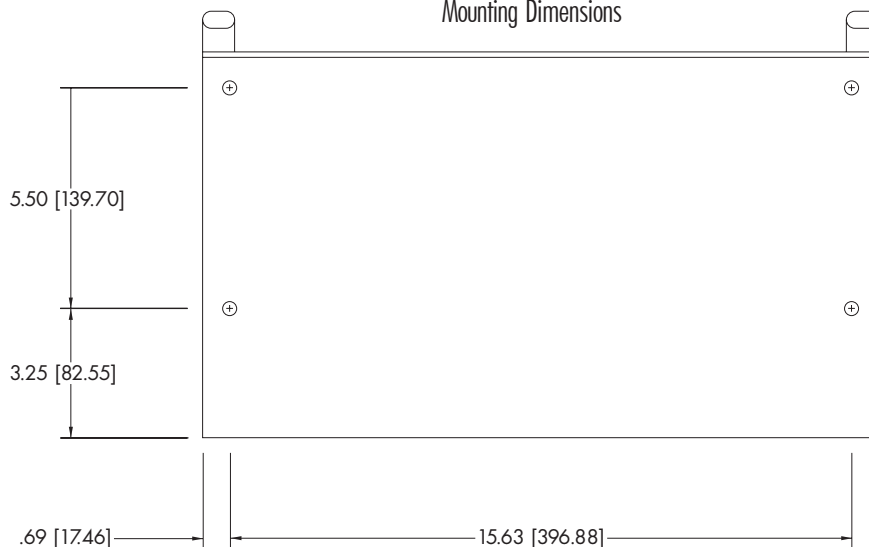
Front View



Side View



Mounting Dimensions



DIMENSIONS IN INCHES [MILLIMETERS]



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Specifications subject to change without notice. 2/06 EN