

# DC-1A/AE1A & DC-5A/AE5A

## Low Voltage Aqualytic Spark Testers

- >> Reliable DC Spark Testing for fragile products
- >> Aqualytic electrode
- >> Available in 1KV & 5KV voltage ranges
- >> Non-destructive

The Clinton DC Spark Tester with Aqualytic Electrode represents the latest in spark test technology for producers of products too fragile for a high contact electrode. The Aqualytic Electrode holds a conducting liquid which completely encompasses the insulation surface and applies the test potential to the moving product. Because there is no mechanical contact with the product, ultra-thin film, foam and miniature cable insulations as well as magnet wire coatings can be tested accurately without damage. Products to 0.125" in diameter may be tested at typical wire line speeds.

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 controlled by 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. When required, a remote switch may be used to reset the spark tester relay from another location.



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# DC-1A/AE1A & DC-5A/AE5A SPECIFICATIONS

## Voltage Test Range:

Model DC-1A/AE1A ..... 50 volts - 1KV DC.

Model DC-5A/AE5A ..... 500 volts - 5KV DC.

Voltage Display ..... Red 3-digit 14.2mm high LED display.

Voltage Accuracy ..... +/- 2% of reading.

Fault Indication ..... Red 3-digit 14.2mm high LED display, amber light.

## Output Current:

Model DC-1A/AE1A ..... 2 milliamperes.

Model DC-5A/AE5A ..... 1.5 milliamperes.

## Detection Sensitivity:

Model DC-1A/AE1A ..... 200  $\mu$ a. at 1000v.

Model DC-5A/AE5A ..... 600  $\mu$ a. at 5000v.

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

Process Control ..... Relay form "C" contacts rated 2 amps max. for both NO and NC circuits.

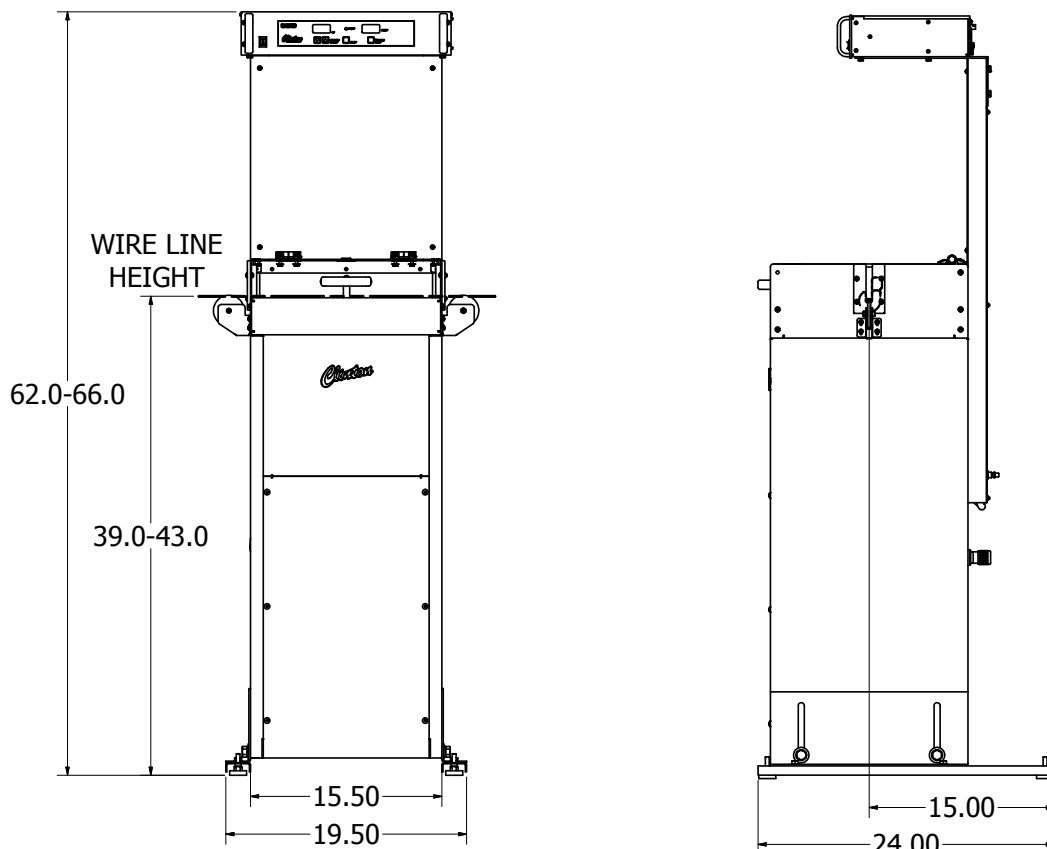
Communications ..... RS-485 Serial Interface; Analog (optional); Ethernet (optional); Profibus (optional).

Safety ..... Designed to IEC-1010.

Dimensions ..... 62.0-66.0"H x 19.5"W x 24"D.

Weight ..... 100 lbs.

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



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Specifications subject to change without notice. 08/12 EN