MODEL DC-1/10/20AC & AR

Digital D.C. Spark Tester Series

- >>> Reliable D.C. spark testing at any speed
- >>> Versatile control configurations
- >>> Available in 1, 10KV and 20KV Models
- >>> Test voltages from 50v
- >>> Digital voltage and fault count displays
- \gg Wide range of electrode styles
- >>> CE approved

The DC-AC/AR, Clinton's new versatile Digital D.C. Spark Tester series, will fit almost anywhere on the wire line. The DC-AC/AR, offering 1, 10 and 20KV models, represents the latest advancement in spark tester design and manufacture.

The DC-AC/AR can work either as a standalone spark tester or as part of a fully process-controlled quality system. It is available as a compact All-in-One system, or it may be configured in two pieces: a separate 19" display and a remote spark tester located as far as 200 feet away.

Equipped with a 4" long bead chain electrode, the spark tester meets UL444 test standards for communications cables at virtually any line speed.

Digital test voltage and fault count displays are vivid and easy to read. For operator protection, a safety interlock switch removes high voltage when the electrode cover is lifted. 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 for respooling or extrusion modes and to set the length of time that process control relay contacts are energized after a fault occurs. The form C relay contacts are accessible on a rear panel connector for easy wiring to external alarms, lights or machines that are to be controlled by the spark tester.

DC-AC/BD-14

The DC-AC

The spark tester is an All-in-One configuration-- display panel and spark tester-with an RS-485 serial interface. 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 customer supplied computer or PLC.

The DC-AR

This configuration is a remote spark tester (without a display) with an RS-485 serial interface that can receive and respond to digital commands from a customer supplied computer or PLC.

The DC-AR with ARC Remote Display

This arrangement allows the ARC Remote Display to be rack or panelmounted. An RS-485 serial interface is standard on the ARC.

The DC-1AC/AR - Low Voltage Digital DC Spark Tester

The DC-1AC/AR is typically used with a high density high brush contact electrode for maximum coverage at low voltages. Test voltages are accurate from approximately 50 volts to 1000 volts DC and are non-destructive. Please contact the factory- regarding your application.



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DC-AR/BR-1A

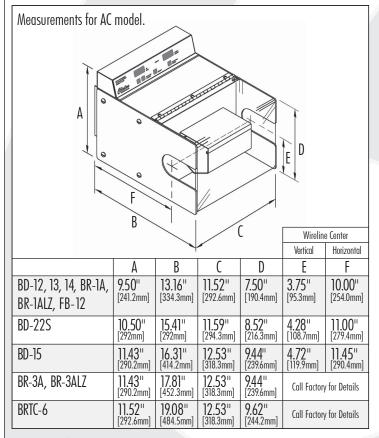
(Computer shown in photos not included nor offered by CIC.)

DC-AC/AR SPECIFICATIONS



Voltage Test Range:

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DC-1AC/AR	50v to 1KV (minimum voltage varies on electrode design.)			
DC-10AC/AR	500v to 10KV (minimum voltage varies on electrode design.)			
DC-20AC/AR	500v to 20KV (minimum voltage varies on electrode design.)			
Output Current:				
DC-1AC/AR	2 milliamperes.			
DC-10AC/AR	1.5 milliamperes maximum.			
DC-20AC/AR	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				
DC-1AC/AR	200 µa. at 1000v.			
DC-10&20AC/AR	Less than 600 µa. at 5KV.			
Operating Modes	Continuous HV/Remove HV on Fault. Momentary Process Control/Latch			
	until Reset.			
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 240VAC 1 amp, 49-61 Hz. Power supply is self-adjusting.			
Communications	RS-485 Serial Interface; Analog (optional); Ethernet (optional);			
	Profibus (optional).			
Safety	CE Approved			
	Designed to IEC-1010			



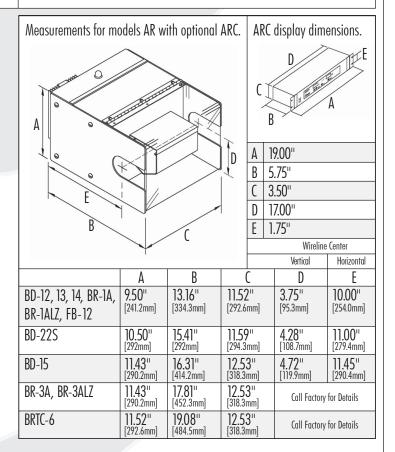
Bead Chain Assemblies (DC-10&20AC/AR only) :					
 BD-12Bead Chain Assembly 1" Product Diameter, 2" along wire line. BD-13Bead Chain Assembly 1" Product Diameter, 3" along wire line. BD-14Bead Chain Assembly 1" Product Diameter, 4" along wire line. BD-15Bead Chain Assembly 1" Product Diameter, 5" along wire line. BD-22SBead Chain Assembly 2" Product Diameter, 2" along wire line. 					
Brush Assemblies:					
BR-1ABrush Assembly Phosphor Bronze 1" Product Diameter.					

BR-1ABrush Assembly Phosphor Bronze 1" Product Diameter.					
BR-1ALZBrush Assembly Phosphor Bronze 1" Product Diameter, 10KV max.					
BR-3ABrush Assembly Phosphor Bronze 3" Product Diameter.					
BR-3ALZBrush Assembly Phosphor Bronze 3" Product Diameter, 10KV max.					
BRTC-6LZBrush Assembly Tape Cable 6", 10KV max.					
BRTC-12LZBrush Assembly Tape Cable 12",10KVmax.					
FB-12Fiberlite Brush Assembly.					

Roller Assemblies:

R-46	Roller Assembly	25″ (6mm)	max.	Product	Thickness,
	6" (150mm) Prod	duct Width.			

Please consult factory for help in choosing equipment for specific applications.





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