MODEL PDC-20AC (TUBING AND CATHETERS)

In-Line Pinhole Detector for Corrugated Tubing and Catheters

Reliable pinhole detection at virtually any speed

>> Wide range of products may be tested

- >> Regulated test voltage
- >>> Digital voltage display

Manufacturers of products such as corrugated tubing and medical catheters have long sought an economical method of locating pinholes and flaws during the production process.

In-line optical or laser inspection systems are costly and limited to the size hole that can be detected. Often these systems are not suitable for pinhole detection in transparent products or on convoluted surfaces.

Clinton Instrument Company introduces the Model PDC-20AC In-Line Pinhole Detector, a low cost, non-destructive electronic system that uses high voltage to instantly locate defects in dielectric (nonconductive) products and coatings.

The system works by energizing the outer surface of a product with a high voltage electrode, through which the product travels. The product rides over a grounded electrode, which can be an extension of the extrusion tooling, or a metallic mandrel or carrier, if present. If the product has a braided metallic rein-



forcement, this can often be utilized as the grounded electrode.

Defect-free product will insulate these electrodes from each other. However, when a pinhole passes between the electrodes, a discharge through the hole will occur that is instantly detected and reported by the system.

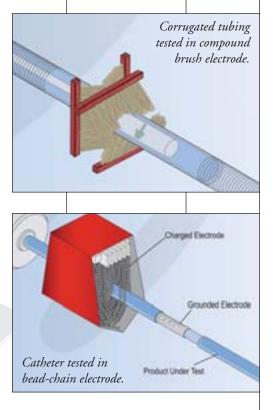
Digital test voltage and fault count displays are vivid and easy to read. For operator protection, a safety interlock switch removes high voltage when the electrode cover is lifted. Wiring and setup are done externally-- there is no need to open up the unit. The form C relay contacts are accessible on a rear panel connector for easy wiring to external alarms, lights or machinery that are to be controlled by the pinhole detector.

The PDC-20AC In-Line Pinhole Detector is easy to use and is current limited for safe operation. Its advanced circuitry delivers optimum fault detection at virtually any production speed.

With over 50 years experience in high voltage pinhole and defect detection, Clinton Instrument has gained considerable expertise in the testing of a wide range of product types. Please contact the factory to discuss your specific application.

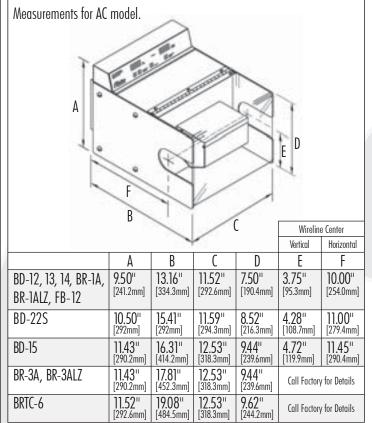


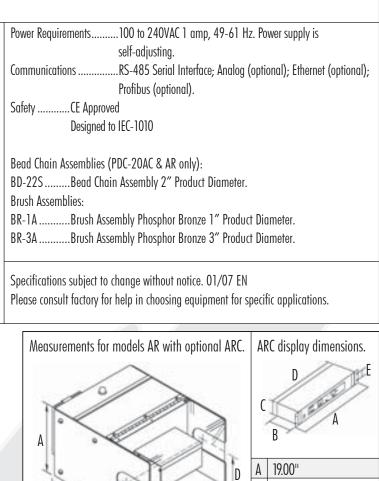




PDC-20AC SPECIFICATIONS

Voltage Test Range:	Power Requirements.
PDC-20AC/AR1KV to 20KV (minimum voltage varies on electrode design.)	
Output Current:	Communications
PDC-20AC/AR0.75 milliamperes maximum.	
Fault Indicationred 3-digit 14.2mm high LED display; amber	SafetyCE Ap
indicating light.	Desigr
Fault ResponseLess than 1 millisecond.	
Fault Resolution	Bead Chain Assembl
Detection Sensitivity	BD-22SBead
PDC-20AC/ARAdjustable from 200 µA. to 1.5mA.	Brush Assemblies:
Operating ModesContinuous HV/Remove HV on Fault. Momentary Process	BR-1ABrush
Control/Latch until Reset.	BR-3ABrush
Process ControlRelay, form "C" contacts rated 1 amp max @ 240VAC, 2	
amps max @120VAC, for both NO and NC circuits. Front panel	Specifications subjec
or external reset in non-latch modes, closure time is adjustable	Please consult factor
from 50ms to 2.5 seconds.	





					17.00"			
B C				E	1.75"			
				Wireline Center				
						Vertical	Horizontal	
	Α	В		Ć		D	E	
BD-12, 13, 14, BR-1A,	9.50"	13.16"		11.52"		3.75"	10.00"	
BR-1ALZ, FB-12	[241.2mm]	[334.3mm]	[292.6mm] 11.59" [294.3mm] 12.53" [318.3mm]			[95.3mm]	[254.0mm]	
BD-22S	10.50" [292mm]	15.41'' [292mm]				4.28'' [108.7mm]	11.00" [279.4mm]	
BD-15	11.43" [290.2mm]	16.31'' [414.2mm]				4.72'' [119.9mm]	11.45" [290.4mm]	
BR-3A, BR-3ALZ	11.43" [290.2mm]	17.81'' [452.3mm]		12.53" [318.3mm] 12.53" [318.3mm]		Call Factory for Details		
BRTC-6	11.52" [292.6mm]	19.08'' [484.5mm]				Call Factory for Details		

B 5.75

C 3.50"

