

DESCO

Continuous Monitors with Wave Distortion Technology from Desco



WAVE DISTORTION

Wave Distortion Technology is the Most Reliable Technology for Continuous Monitoring of Single-Wire (Conductor) Wrist Straps

Wave Distortion Technology continuous monitors feature low test voltage, a low monitor range for 1 megohm of resistance in the operator's wrist strap, and instantaneous detection of an intermittent or failure of the path-to-ground of the operator or work surface that other monitors / technologies miss.

How Wave Distortion Technology Works

1. Applies a continuous test voltage (1.2 volts peak-to-peak at 1-2 Micro Amps)
2. The connection to the human body (HBM) creates a sine wave that the monitor circuit compares to the total impedance to established patterns.
3. By monitoring the "distortions", or shape of the sine wave, Wave Distortion Technology determines if operator is grounded properly.
4. Different "distortions" represent different parameters of the monitor.

Contact DESCO to Request a Demo

Wave Distortion Technology vs other Wrist Strap Monitoring Technologies

	Basic Capacitance / Impedance	Resistance	WAVE DISTORTION Capacitance / Impedance
1 Megohm Safety Resistor Monitoring	Some	Yes	YES Desco monitors the required lower and upper limits for wrist straps from the ANSI/ESD S20.20-2104.
Test Voltage	3.5V	Up to 16V	1.2V Lower voltage reduces the risk of damage when handling ESD susceptible devices.
Banana Jack Monitoring	Yes	No	YES Alarms when the connection between the banana plug and monitor's jack is intermittent or fails.
Response Time	~1 second	Up to 2 seconds	<50 Milliseconds Instantaneous detection of an intermittent or failure in the path-to-ground of the operator or worksurface.
In-Use Verification	No	Some	YES Verify test limits of Wave Distortion Monitors without removing from workstations.



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