Monitoring

Rev: 2020-07-21

SPARTAN PRO Constant MonitorModel CM320 - Two Operator & One Mat

Ensure Your ESD Workstation is Static-Safe with a Single Wire Constant Monitor.

The Spartan Series Constant monitors provide ongoing testing of single wire wrist straps and ESD worksurfaces. The CM320 not only eliminates time consuming wrist strap testing, it removes the danger of wrist straps failing in the field and possibly exposing highly sensitive materials to static. Both audible and visual alarms signal when the wrist straps or worksuface fail. Enclosed in a durable metal case with built in mounting brackets, the monitors can be installed underneath table tops to save work space. The CM320 monitors meet or exceed the recommendations of ANSI ESD S20.20.

Why Use Constant Monitors?

The first and best line of defense against static damage is wrist strap grounding, but these wrist straps wear over time and must be tested to ensure they are working properly. ESD Constant monitors reduce production costs by eliminating the time spent on testing wrist straps before each shift. Further savings may be realized by reduced ESD damage from broken wrist straps.

Capacitance Technology

The CM320 sends out a signal through the wrist strap that detects the capacitance of the person and ground. When both are present, the monitor goes into an unalarmed state. If the electrical connection to the person or to ground should fail, the circuit will go into the alarm state to signal there is a problem.

Calibration / Verification

The CM320 monitors are designed to be adjustment free. Annual calibration is not necessary because the devices are a fixed system. If, however, your quality program requires testing, a verification tool is available to verify that the monitor is functional.



Features

- Continuously Checks Two Wrist Straps and One ESD Worksurface Mat
- Audible and Visual Alarms
- Compatible with Standard Single Wire
 Wrist Straps & Most ESD Mats
- Easy To Use: Simply Plug In Wrist Strap
- Factory Calibrated; No Adjustments or

Applications:

ESD constant monitors reduce production costs by eliminating the time spent on testing wrist straps. Further savings may be realized by reduced ESD damage from broken wrist straps.

Single Wire Constant Monitor

Periodic Verification Unit

Specifications:

Wrist open circuit voltage 0.7 VDC, +0.1VDC @ < 2mA Ver

Verification Tool CM410 PV

CM320 CM410PV

Part Numbers:

Mat open circuit voltage 5.0—7.5 VDC

Dimensions

1.125" H x 5.12" W x 2.25" D

Alarm indicators

Alarm/LED (green: safe, red: unsafe)

Weight

7.4 oz

Alarm set point :

6.5 megohm

Power Input

120VAC—60hz

Audible Alarm

10 beeps (max); 5 seconds

Power Output:

12VDC, 200mA

Monitoring capabilities

One wrist strap/person

Adjustment

No adjustments required

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