

## 3M™ Wrist Strap and Ground Monitor 773

The Wrist Strap and Ground Monitor 773 can be used to monitor the ground impedance of metal ground connections of process tools in work areas including, but not limited to semiconductor, disk drive, flat panel, and electronic equipment manufacturing. For the Wrist Strap and Ground Monitor 773, ground impedance monitoring can be used for up to two points for metal ground, such as within a tool. The Wrist Strap and Ground Monitor 773 can continuously monitor the resistance and voltage level of two operators wearing dual wire wrist straps. This monitor 773 provides both visual and audible alarms, and has a logic output signal.

### Metal Ground Monitor

The Wrist Strap and Ground Monitor 773 continuously monitors ground on two separate channels that are connected to two process tools. The alarm level is set the same for all channels.

### Resistance and Voltage Wrist Strap Monitor

The Wrist Strap and Ground Monitor 773 derives the property of the circuit, including the cable, band and operator to help ensure proper electrical connection. This monitor has an additional feature that allows continuous monitoring of voltage on a person through a dual conductor wrist band assembly. The operator is grounded via the Wrist Strap and Ground Monitor 773.

### Applications

- Electronics Assembly
- Semiconductor Device Manufacturing
- Industrial Robotics
- Back-End Semiconductor Tools
- Tool Clusters
- Medical

### Features

- Two metal ground monitoring
- Adjustable impedance alarm level
- Enable/disable for each ground
- Output to the host toolOperator wrist strap monitor
- Operator body voltage monitoring
- Audio and visual alarms
- Sound alarm on/off



### Product Specifications

Properties	Value
<b>Operator Monitor</b>	
Wrist Strap	Dual Wire, 3.0 mm plug
Number of Wrist Straps Monitored	2
Body Resistance Alarm Level	10 MΩ typical (plus two 1 MΩ resistors in the end of the ground cord that attaches to the wrist band)
Body Voltage Alarm Level	± 2.5V typical (Default)
<b>Ground Impedance Monitor</b>	
Number of Grounds Monitored	2
Ground Impedance Alarm Level	1-10, 12, 14, 16, 18 and 20Ω (default 10Ω)
<b>General</b>	
Output Signal Level	Logic 1 (5V typical) if below selected resistance level (any failure) Logic 0 (0V typical) if above selected resistance level (all pass or power loss)
Visual and Audio Indication	Green - OK Red - Fault Condition no LED - not monitored Note: Operator LED's red or green will not illuminate if wrist strap is not plugged into jack. Buzzer fault condition if enabled is ON
Power Supply	Universal: 100 - 240VAC, 0.5A, ~ 50/60 Hz Output: 12VDC, 1.5A
Dimension (approx.)	1.5" W x 3" H x 1.125" D (38.1 mm W x 76.2 mm H x 28.6 mm D)
Weight (approx.)	136 g

### 3M™ Wrist Strap and Ground Monitor 773

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78-9102-1858-1 JHA

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