

3M™ EM Aware TNG ESD Event Monitor

The EM Aware TNG Event Monitor is designed to:

- Provide a real time detection of most ESD events, change of static voltage and verification of critical environment ionizers (< + 5V offset)
- Continuously monitor the environment for ESD
- Provide a comprehensive diagnostic tool

The EM Aware TNG ESD Event Monitor measures parameters through a single remote antenna, rejects most non-ESD events, and provides output of data.



Selection Guide

Model	ESD Events	Event Magnitude	Event Counter	Change on Static Voltage	Ionizer Verification*
3M034-031-TNG	✓	✓	✓	✓	✓
3M034-030-TNG	✓	✓	✓	✓	

*Only for ionizers having less than ± 5V offset

Properties	Typical Value
ESD Event Monitor	
Measurement	Magnitude of HF Electromagnetic Field by ESD Event
ESD Event Threshold Range	60 – 140 dBμV typical (default setting: 80dBμV)
Raw Input Signal	60 dBμV - 134 dBμV typical
Filtering Function	ESD
Static Voltage Monitor	
Measurement	Change of static voltage
Static Voltage Setting Range (+/-)	12.5V, 100V, 250V, 500V, 1000V
Analog Output	Vout = 1 V (4 mA for 250Ω) typical for high negative static voltage value range Vout = 5 V (20 mA for 250Ω) typical for high positive static voltage value range
Verification of Ionizer*	
Compatible Ionizer	Steady State DC Blower Ionizer
Monitoring Balance Range	± 5V* *typical
Connectivity	
Input	SMA Connector for Remote antenna
Outputs	RJ45 connector, 4-20mA analog output or RS485 as digital output
General	
Alarm	Buzzer
Display	LCD
Power	Universal 100 - 240VAC 0.5A, ~ 50 - 60Hz Output: 12VDC 1.5A
Dimension (approx.)	3.17" W x 2.23" H x 1.50" D (antenna not included) (81 mm W x 57 mm H x 38 mm D)
Weight (approx.)	146g

*Only for ionizers having less than + 5V offset

** The readings of ionization voltage and decay under identical conditions may not always be correlated with CPM. 3M™ EM Aware TNG ESD Event Monitor is not a replacement for regular test of ionizer by CPM.

Product Data Sheet

3M™ EM Aware TNG ESD Event Monitor

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