

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*	
(Model 3M034-031-TNG only)	
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.

3M™ EM Aware TNG ESD Event Monitor

3M is a trademark of 3M Company.

Important Notice

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

Warranty; Limited Remedy; Limited Liability.

This product will be free from defects in material and manufacture for one year from the time of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.**



Electronics Materials Solutions Division Static Control Products

926 JR Industrial Drive
Sanford, NC 27332-9733
Toll-Free: 866-722-3736
International: 919-718-0000
Email: 3mstaticinfo@mmm.com
www.3Mstatic.com

Please recycle. Printed in USA.
© 3M 2014. All rights reserved.
78-9102-1947-2 JHA

AMEYA360

Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit www.ameya360.com

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype [ameyasales1](#) [ameyasales2](#)

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com