

BFN-TGM-I Three-Way Mat Grounding Resistance Value Online Monitor

The BFN-TGM-1 Is Designed Using A High-Performance MCU And High-Quality MAX485 Chip. Utilizing The Matching Software System (RTS2000), It Can Monitor And Record The Working Status Of Three Independent Workstation Mats In Real Time. To Facilitate Centralized Management And Data Analysis, The Device Also Features Audible And Visual Alarms, Intelligent Monitoring, A Compact Size, Light Weight, And Simple Operation. It Can Accurately Identify Fault Points In The Mat Grounding Loop System, Promptly And Accurately Alert Operators To Quickly Handle Faults, Restore Normal Production Line Operation Rapidly, Eliminating Costly And Cumbersome Detection Record-Keeping Tasks. In Its Design, Software Filtering Is Applied To The Sampled Signal, Preventing Misjudgments Caused By Human Parasitic Signals, Ensuring More Stable And Reliable Judgments. This Guarantees The Normal Use Of EPA Workstation Mat Grounding Systems. Suitable For Scenarios Such As Electronic Manufacturing, Medical And Pharmaceutical Industries, Semiconductors, Photoelectric Optics, Precision Machining, Food Processing, And Aerospace Manufacturing.



Wired: 1.5.01.00.0025 Wireless: 1.5.01.00.0010

Product Parameters

Working Voltage	AC/DC 9~12V
Mat Alarm Resistance Value	3.5MΩ±20% (1~35MΩ Factory Settable)
Dimensions	W57*L104*H23 (mm)
Operating Environment	Temperature 0°C ~ 50°C, Relative Humidity 20%~85%RH
Working Current	<100mA
Housing Material	Stainless Steel
Color	Stainless Steel Natural Color
Weight	168g

Operation Guide

◆ Power On

After Installing the BFN-TGM-1, Confirm That the Static Grounding (G Terminal) is Good. Insert the Power Adapter Plug Into the Power Adapter Jack (PWR). After Powering on, If the Buzzer Sounds, Please Check if the Grounding is Proper. If at This Time the Mat Indicator Light is Flashing Red, Please Check if the Relevant Mat Grounding Components are Properly Connected to the Mat and if the Mat Itself is Good; Unused Mat Monitoring Lines Should be Directly Shorted to the Ground Terminal. After Powering on, The BFN-TGM-1 Will Immediately Begin Monitoring the Grounding Status of the Workstation Mats.

◆ Function Description

After Normal Startup, During Operation, If the Grounding of Each Mat is Good, The Corresponding Mat Indicator Light Will Illuminate Green. If a Fault or Open Circuit Occurs, The Corresponding Mat Indicator Green Light Will Extinguish and the Red Light Will Illuminate, Accompanied by an Alarm Sound to Alert the Operator to Check the Fault Point. The Fault Information Will Also be Reported to the Host Computer.