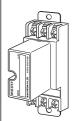
Lightning Surge Protectors for Electronics Equipment M-RESTER

LIGHTNING SURGE PROTECTOR FOR **PROFIBUS-PA**

Functions & Features

· Designed specifically for the network

• No interruption of transmission signal by unplugging the head element module



MODEL: MDP-PA[1]

ORDERING INFORMATION

 Code number: MDP-PA[1] Specify a code from below for [1]. (e.g. MDP-PA/A33)

[1] OPTIONS

DIN rail mounting adapter

blank: Without /A33: With adapter (model A-33)

APPLICABLE NETWORK

PROFIBUS-PA, Foundation Fieldbus and other networks complied with IEC 61158-2

Note 1: This unit is not approved for classified locations. Note 2: Power supply to the bus must be limited to 500 mA or less.

GENERAL SPECIFICATIONS

Construction: Plug-in Connection: M4 screw terminals (torque 0.8 N·m) Screw terminal: Nickel-plated steel Housing material: Flame-resistant resin (black)

INSTALLATION

Operating temperature: -5 to +55°C (23 to 131°F) **Operating humidity:** 30 to 90 %RH (non-condensing) Mounting: Surface or DIN rail Weight: 100 g (0.22 lbs), standard; 125 g (0.28 lbs), with DIN rail mounting adapter

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PERFORMANCE

Max. continuous operating voltage (Uc): Line to line: 27 V min Line to earth: ±160 V min SHLD to earth: ±160 V min Voltage protection level (Up): • @ 2 kV (1 kA) Line to line: ±60 V max. Line to earth: ±600 V max. SHLD to earth: ±600 V max. Response time: Line to line: \leq 4 nsec. Line or SHLD to earth: \leq 20 nsec. Leakage current: Line to line: $\leq 5 \mu A @ \pm 27 V$ Line to earth: \leq 5 μ A @ ±160 V SHLD to earth: \leq 5 µA @ ±160 V Max. discharge current (Imax): 5000 A (8 / 20 µs) Nominal current (I_N): 500 mA **Internal series resistance**: $\leq 3.3 \Omega$ including return Capacitance @ 1 MHz: Line to line: \leq 1500 pF Line to earth: $\leq 100 \text{ pF}$ SHLD to earth: \leq 100 pF

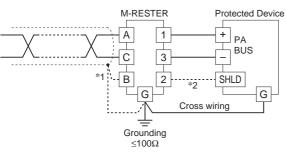
STANDARDS & APPROVALS

Surge protection: IEC 61643-21 (Categories C1, C2)

TEL : (02)2598-1199 E-mail : info@xintop.com FAX: (02)2596-2331 Website: www.xintop.com

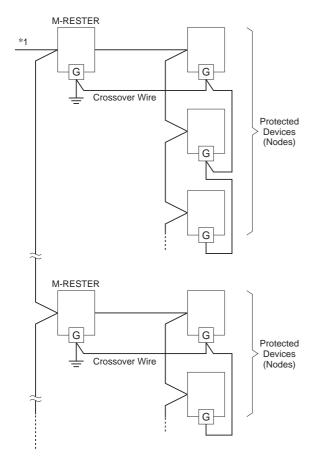
CONNECTION EXAMPLES

■ CONNECTION DIAGRAM



- *1. Cross wire to the surge protector's 'G' terminal when grounding the shield wire. If the shield wire is not to be grounded, connect it to 'B' terminal. *2. Follow instructions provided with the protected device whether '2' terminal
- should be connected or not. However, if the shield terminal of the protected device is not isolated from PA BUS, DO NOT connect '2' terminal to the protected device.

■ NETWORK CONFIGURATION



*1. Fieldbus devices complying with IEC 61158-2 operate by a supply voltage between 9V and 32V DC

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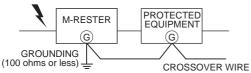
Take the MDP-PA's internal series resistance into consideration when determining the cable distance if there is a large current flow on the bus line.

When the distance between nodes are relatively long (e.g. grouped and separated by cabinets), install the MDP-PA by each group of devices. Insert the MDP-PA at the surge side of the network. For detailed information on the network, refer to that provided by PROFIBUS International or Fieldbus Foundation.



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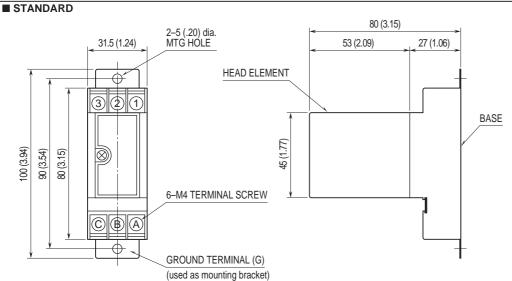
GROUNDING



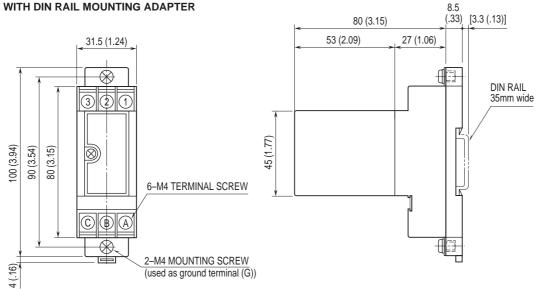
A crossover wire between M-RESTER ground and the ground or metallic housing of the equipment is required for protection. If the protected equipment has no ground terminal, ground the M-RESTER only

When the M-RESTER is mounted with DIN Rail Mounting Adapter, connect the grounding wire to the mounting screw of the M-RESTER.

EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



■ WITH DIN RAIL MOUNTING ADAPTER



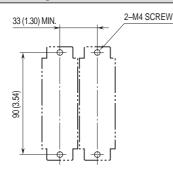


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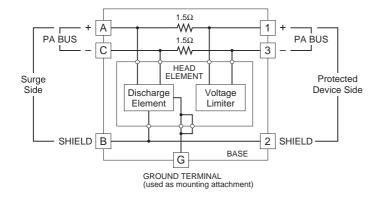
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MOUNTING REQUIREMENTS unit: mm (inch)



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM





Specifications are subject to change without notice.





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