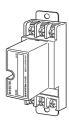
MODEL: MDP-PM

# Lightning Surge Protectors for Electronics Equipment M-RESTER

# LIGHTNING SURGE PROTECTOR FOR POTENTIOMETER USE

#### **Functions & Features**

- Designed specifically for potentiometer or slidewire circuits
- Protects potentiometer transmitters from lightning surge damage that enters on the wiring between the potentiometer and the transmitter
- Absorbs surges only without affecting instrumentation signal
- No interruption of signal by unplugging the protector element



MODEL: MDP-PM[1]

#### **ORDERING INFORMATION**

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

#### [1] OPTIONS

**DIN Rail Mounting Adapter** 

blank: Without

/A33: With adapter (model A-33)

## **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**: 140 g (0.31 lb), standard

165 g (0.36 lb), with DIN rail mounting adapter

#### **PERFORMANCE**

Max. continuous operating voltage (Uc):

B to C: ±7.5 V min.
B or C to A: 7.5 V min.
Line to earth: ±140 V min.
Voltage protection level (Up):

@ 1 kV (100 A)
2 to 3: ±16 V max.
2 or 3 to 1: 16 V max.
Line to earth: ±650 V max.

• @ 2 kV (1 kA) 2 to 3: ±25 V max. 2 or 3 to 1: 25 V max. Line to earth: ±800 V max. **Response time**: ≤ 0.1 μsec.

Leakage current:

B to C:  $\leq$  10  $\mu$ A @  $\pm$ 7.5 V DC B or C to A:  $\leq$  10  $\mu$ A @ 7.5 V DC Line to earth:  $\leq$  10  $\mu$ A @  $\pm$ 140 V DC

Max. discharge current (Imax):  $5000 \text{ A} (8 / 20 \mu \text{s})$ 

Nominal current (I<sub>N</sub>): 100 mA

Internal series resistance:  $10 \Omega \pm 0.1 \%$ , 30 ppm/°C (17

ppm/°F)

Capacitance @ 1 MHz: Line to line: ≤ 2000 pF Line to earth: ≤ 100 pF

#### **STANDARDS & APPROVALS**

Surge protection: IEC 61643-21: 2000

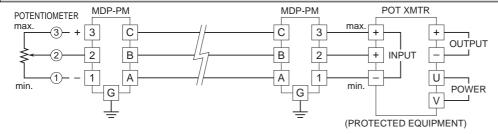
(Categories C1, C2)

TEL: (02)2598-1199 E-mail: info@xintop.com

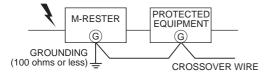
**FAX**: (02)2596-2331 Website: www.xintop.com

MODEL: MDP-PM

#### **CONNECTION EXAMPLES**



### **GROUNDING**

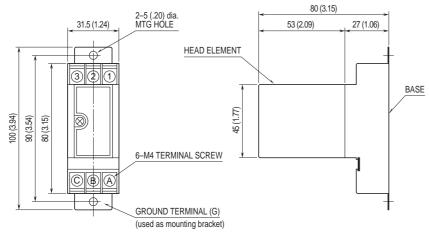


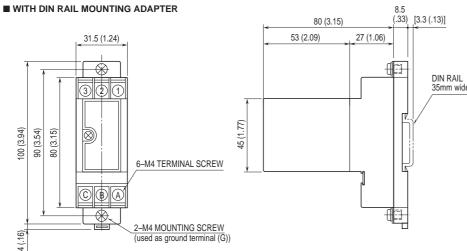
A crossover wire between M-RESTER ground and the ground or metallic housing of the equipment is required for protection. If the protected equipment has no ground terminal, ground the M-RESTER only.

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)**

#### ■ STANDARD







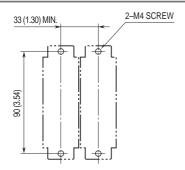
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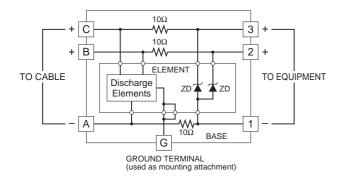
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MODEL: MDP-PM

# **MOUNTING REQUIREMENTS unit: mm (inch)**



### **SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM**



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Specifications are subject to change without notice.

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