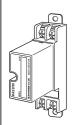
Lightning Surge Protectors for **Electronics Equipment M-RESTER**

LIGHTNING SURGE PROTECTOR FOR THERMOCOUPLE USE

Functions & Features

- Designed specifically for thermocouple circuits
- Absorbs lightning surges entering the temperature transmitter or controller through the thermocouple and/or
- thermocouple extension wire
- Absorbs surges only without affecting instrumentation signal
- No interruption of signal by unplugging the protector element



MODEL: MDP-TC[1]

ORDERING INFORMATION

 Code number: MDP-TC[1] Specify a code from below for [1]. (e.g. MDP-TC/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: 120 g (0.26 lb), standard 145 g (0.32 lb), with DIN rail mounting adapter

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PERFORMANCE

Max. continuous operating voltage (Uc): Line to line: 7.5 V min. Line to earth: ±140 V min. Voltage protection level (Up): • @ 1 kV (100 A) Line to line: 16 V max. Line to earth: ±650 V max. • @ 2 kV (1 kA) Line to line: 20 V max. Line to earth: ±800 V max. **Response time**: $\leq 0.1 \, \mu \text{sec.}$ Leakage current: Line to line: \leq 10 μ A @ 7.5 V DC Line to earth: \leq 5 µA @ ±140 V DC Max. discharge current (Imax): 5000 A (8 / 20 µs) Nominal current (IN): 100 mA **Internal series resistance**: $20 \Omega \pm 10 \%$ (including return) Capacitance @ 1 MHz: Line to line: $\leq 1000 \text{ pF}$ Line to earth: \leq 100 pF

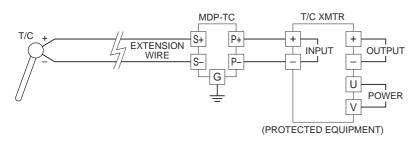
STANDARDS & APPROVALS

Surge protection: IEC 61643-21: 2000 (Categories C1, C2)

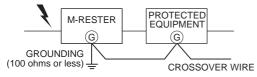
FAX: (02)2596-2331 Website: www.xintop.com

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

CONNECTION EXAMPLES



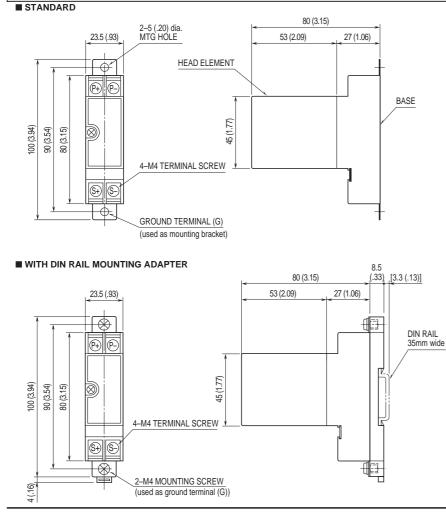
GROUNDING



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)



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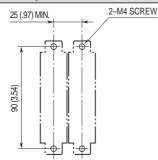
XIN TOP CORPORATION



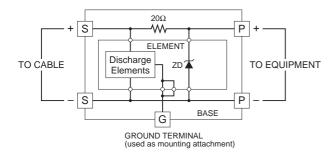
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MOUNTING REQUIREMENTS unit: mm (inch)



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM





Specifications are subject to change without notice.

