

**WARNING:
IMPORTANT SAFETY INFORMATION**

To avoid risk of shock or fire, which can be caused by incorrect wiring or regulation, whenever installing AC surge protection devices, the safety procedures must be followed.

Suitably qualified personnel should carry out all installation.

1. Always isolate supply before installing or removing any connections.
2. The maximum rating of fuse/circuit breakers must not exceed the lower of:
 - a. The maximum value specified for the surge protection device.
 - b. The power supply short circuit current.
 - c. The maximum rating of equipment protected by the surge protection device.

Examples: For an in-line surge protection device with maximum specified through or line current of 30A,

- a. *Connected to a 30A power supply - Protect with 30A maximum.*
- b. *Connected to a 8.5A UPS or standby generator - Protect at 5A (A, 1.7 is the usual safety margin of fuses).*
- c. *Connected to equipment rated at 5A maximum - Protect at 5A maximum.*

- Correct polarity is essential. Check both at SPD and source of supply.
- The supply voltage must be less than the maximum working voltage of the SPD. Pay particular attention to UPS and standby generator regulation and neutral ground bond.

NOTE: Ensure that surge protection devices are removed before performing insulation or flash tests on equipment.

MAINTENANCE

The lifetime of the MA30 is dependent on the number of surges experienced; however, the unit will typically provide maintenance-free protection over a twenty year period.

In the event of a surge exceeding the device ratings, the unit is designed to fail-safe, due to the secondary protection elements. The equipment, therefore, remains protected.

NOTE: The MA30 is designed to limit the voltage that can occur both line-line and line-ground. Any system insulation test should be carried out with the MA30 disconnected from the circuit.



INSTALLATION INSTRUCTIONS/ USER MANUAL

MA30 DIN RAIL or WALL MOUNT RFI & SURGE PROTECTION DEVICES

CONGRATULATIONS! YOU HAVE JUST PURCHASED THE BEST SURGE PROTECTION IN THE INDUSTRY!

Adhering to these instructions guarantees maximum performance of this Protection device.

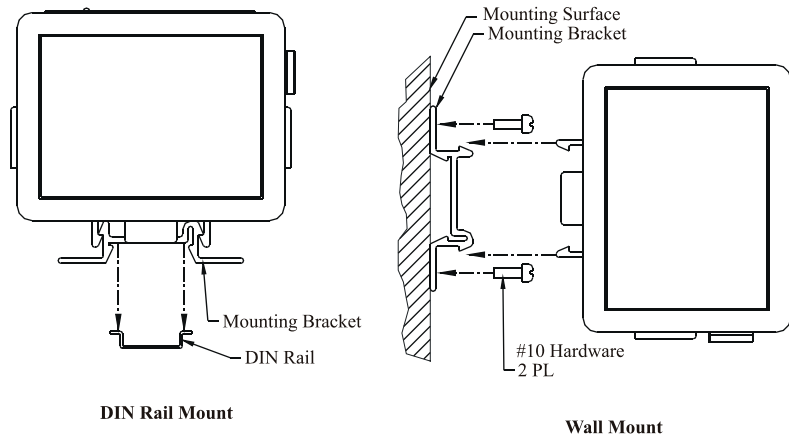
The MA30 RFI & SURGE PROTECTION DEVICES (SPDs) are a range of DIN Rail and wall mounting SPDs for mains power applications.

INTRODUCTION

The MA30 protects electronic equipment from surges and Radio Frequency Interference (RFI) on the mains power supply. The MA30 has a unique 3-stage combination of protection elements providing filtering, surge protection and ring suppression.

INSTALLATION

The MA30 simply clips on to a 35mm (EN50022, DIN46277-2) DIN rail, or mounts to the wall with #10 hardware and provided bracket.



CONSTRUCTION

The casing of the MA30 has screw-clamp terminals for input and output connections. The maximum allowable wire cross section for the terminals is #10 AWG (5.2mm²)

CONNECTION

The MA30 may be installed in series with the load or, if the load current exceeds 30A, it may be installed in parallel.

Series Connection:

Connect the incoming mains to one side of the MA30 device, and the protected equipment to the other side.

Parallel Connection:

Connect the incoming mains supply or equipment power to one side of the MA30 device. This will install the SPD in parallel with the supply and it will not be subjected to any load current. Install 30A overcurrent protection (fuse or circuit breaker) in the LINE wire.

The Live wire must be connected to the “L” terminal and the Neutral wire must be connected to the “N” terminal of the MA30. If two core cable without an integral earth wire is being used, then for full protection, the earth “E” terminal should be bonded to a suitable system earth point.

NOTE: A fuse or circuit breaker must be inserted in the mains input side of the incoming supply. Rating will be according to the required load current and apply to series connection only.

Remote Indication

A three position remote indication connector is provided. This will provide indication of suppressor failure and/or power failure. The form C contacts are rated 3A at 230Vac (250Vdc). The contacts may be connected to an energy management/monitoring system or the optional Atlantic Scientific remote monitoring unit (RMU).

WARNING

EXPLOSION HAZARD - DO NOT disconnect equipment unless power has been switched off or the area is known to be non-hazardous.