

Notes: Good Practice when installing any Din Rail mounted instrumentation

To increase the life expectancy of your din rail mounted instruments, we recommend that the following guidelines are adhered to:

Mounting Instruments along a Din Rail

Any signal conditioning/process control units will contain electronics which in certain conditions have to lose their excess energy as HEAT. Suppliers of such instruments cannot predict the site conditions or situations, so to make sure that hot spots do not occur it is recommended that electronic instruments are not bunched together horizontally in groups of more than FIVE units.

A space of 5-10mm every five units max will minimise temperature rise within that group of instruments.

If mounted vertically it is recommended that no more than two instruments are stacked together, then a minimum 5mm spacer between adjacent units/pairs.

Cabling/Relay Transient Suppression

The electronics in process control units are generally mounted in a small enclosure, which by the very size means that the wiring entering and leaving each enclosure is physically close together. To avoid interference from one port to another we recommend the following rules of thumb:

- a) Power cables and wires that carry transients are routed separately to the signal wiring, ideally crossing at 90° to each other.
- b) Low level signal cables are kept as screened or twisted pairs where possible. On screened cables only earth the screen at one end.
- c) Relay contacts that switch inductive loads or other arcing devices should be suppressed, ideally at or across the inductance or other source.

On dc circuits a free wheeling diode should be used, it s PIV at least 4 times the working voltage.

On ac circuits, use an RC network, the values of the R and C chosen to match the L and R value of the coil itself.

These rules are very general, so if you encounter any specific problems please contact our sales support team for further assistance.

Amelec product

The Amelec din rail mounted units are available in a number of product packages:-

The Plastic enclosures, which can be DIN rail or individually Surface mounted. They can be surface mounted by the corner fixing holes or clipped to the TS35 rail (light or heavy duty).

The Metal enclosure is supplied as standard for DIN rail mounting (TS35 heavy duty rail). An optional Keyhole plate is available to surface mount the instrument.

The Panel mounted enclosure is supplied in a metal enclosure. The panel cut out needs to be approximately 1mm more than the extrusion dimensions (50mm horizontally and 75mm vertically). Two brackets from inside your panel secure the units.