

# Application and Capability Note

## "Resistors, Capacitors, Diodes, MOV's . . . Easily Added Anywhere"



Automation Systems Interconnect, Inc. recently helped to solve a component problem for one of the leading manufacturers of HVAC control equipment.

This manufacturer designs and builds controls that are used with climate controls and systems for major buildings and manufacturing plants. In the control systems that are designed and built by this customer they regularly use IEC components that are mounted on a DIN rail such as terminal blocks and custom interface modules. Recently they ran across a circuit problem where they had to find an easy way to insert, as needed a series of dropping resistors into the control circuit.

In this type of application they would have normally designed a complete printed circuit board, manufacture it and then find a way to mount it in their piece of equipment. Since ASI has a lot of expertise with control circuits, with component mounting in special modules and terminal blocks the customer contacted our engineering department to determine if we could develop an easy solution. The result can be seen in the picture above. Using a very small interface module tray that snaps directly onto the DIN rail, ASI was able to provide a low cost easy to use solution for this application.

Although this component module is made with resistors, one can see that a similar product can be designed very easily that will allow the customer to add resistors, capacitors, jumpers, fuses, MOV's or any other type of electronic component into a circuit. Normally there are no engineering or tooling charges associated with such a product and the minimum order quantities are quite low. In addition, circuits similar to this one can be mounted as shown in a tray or they can also be designed directly into a terminal block or into an enclosed component housing. The mounting and design options are numerous and can be selected by the customer based on his application.

Every week our engineering department is working with representatives and directly with customers to meet their needs for a custom designed solution for their application. The attraction for this product and service is the simplicity, the low cost for a special product and the fast turn around of a high quality design and product. If there is a special circuit board that your customer has been looking for to solve their application then ASI is your starting point to provide that service.