

The **Micha RS232 and USB Port (PN 102 438)** is a combined Port and Datalogger and replaces previous versions 101595 and 101596. The module allow the end user to directly communicate with the controller via a USB port or RS232 port on a PC or laptop. The module allow 'snapshots' of the current status to be downloaded and displayed, and the Data Logger has the ability to log the status at 15, 30 or 60 minute intervals, allowing in excess of two months of historical data to be stored.

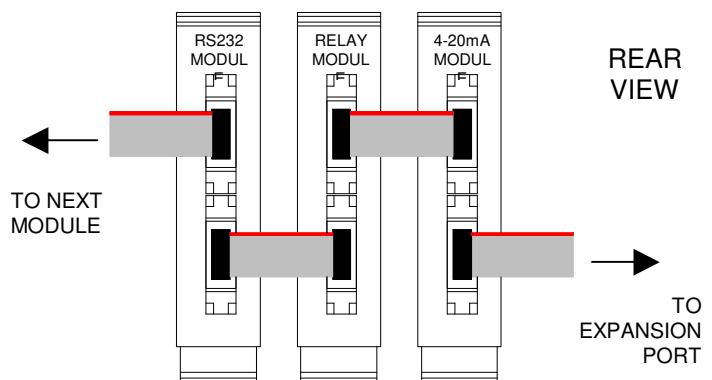
Connection to the module is made to the expansion port of the MSRx controller with the ribbon cable supplied. An on-board DC-DC supply provides electrically-isolated communications to both the USB port and a plug-in terminal connector, allowing wiring to din-rail terminals, an appropriate 9-way D-type connector, or directly to other equipment.

Note that as RS232 allows only a single connection to be made, when a connection is made using the USB connector, the Rx connection to the terminal block is isolated.

### Fitting and Inter-connection of Modules

The modules clip onto standard 35mm symmetrical and 32mm asymmetrical din-rail. Each unit is supplied with 10-way IDC ribbon cable assemblies for connection to the controller Expansion Port and to an adjacent Din-rail unit.

**Note:** all ribbon-cable connections should be made before the controller is powered up. Cables can be plugged into either upper or lower connectors. No connection should be made between modules of different controllers.



Micha provides free software for connection between a PC/laptop and the MSRx – see the documentation at: <http://micha.co.uk/pdf/801681.pdf>

**Module Specification:** Input/Output Insulation: 1,000VDC for 1 second    Power Consumption: 200mW  
**USB Cable:** USB mini-B

**Note:** A **maximum** of 1W may be drawn from the controller expansion port. Where the total consumption of all modules exceeds this value, an auxiliary PSU module **must** be used.