

CARLO GAVAZZI
Automation Components

DISAI

Automatic Systems

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RJ MODBUS

**Solid State Relays
go Online**



Switches

RJ MB ModBus Evolution

The RJ MB series is a solid state relay equipped with a fieldbus communication interface.



Communication Capabilities



Diagnostic Warning



Space Optimization



Cost Saving



Versatile ...

The RJ..MB is a single package solution that combines the functionality of several individual products. The innovative element of this design is that this relatively small solid state contactor is now able to talk!

High level of Protection

RJ..MB has an extremely high surge current capacity ($I^2t=18,000A^2s$) that allows the use of lower cost automatic circuit breakers.

Micro Controlled ...

The relay operates under control of a microcontroller that handles communication, monitors operational parameters and controls the SSR thyristor firing. The RJ..MB supports the Modbus RTU communication protocol, operating over an EIA-485 interface.

Fine Control

The output power can be adjusted with a high degree of resolution

Communicative ...

The communication interface allows modification and reading of several parameters very quickly through a single connection. Diagnostic information is easily accessible for troubleshooting and repair.

Compact

Presenting a compact, fully integrated solution - no waste of time and space to mount an external heat sink. Easily DIN rail or panel mountable.

Market Applications

Lighting Control

Digital, high precision light dimming systems are nowadays used in the entertainment industry. Performances given in theatres, opera houses, TV studios and concert halls are enhanced by a number of special effects. **RJ..MB** can link up to a PC based system to activate and control the intensity of stage lights.



HVAC

In HVAC it is fundamental to continuously monitor the current and the supply voltage of the motors, in order to immediately recognise any fault that can lead to serious damages of the system. It is also important to have an automatic system that monitors the working hours of all the motors and of the other mechanical devices so that to plan in the proper way their maintenance.



Process Automation

RJ..MB is the ideal solution because it meets the requirements at the factory floor for flexibility, modularity and reliability and above all easy interfacing to the IT-level. All values and alarms are transmitted to a central monitoring PC with a SCADA system, which alarms and forwards data to the maintenance staff.



Plastic and Rubber

When a heater fails in an application that needs optimal temperature regulation, the system's temperature profile is altered. In the **RJ..MB** a load current set-point can be stored and continuously monitored to ensure a more consistent temperature control by guaranteeing that all switched heater loads are functioning 100%.



Food and Beverage Processing

Improper heating processes can spoil food. The setup and monitoring of the **RJ..MB** can be done from a remote PLC. In a typical production environment, this gives full flexibility to change setup and perform on-line monitoring via a remote HMI (Human Machine Interface).



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