

**PC Recorder - Remote Data Acquisition Hardware**

**Remote Data Acquisition Hardware and Software**  
**PC Recorder Series**

- Log, Trend, Analyze and Profile Process Signals with Your PC
- Data Collection by PC Recorder Software
- RS-485/RS-232C Communication Port
- Modbus RTU Network
- High Speed Sampling 50 ms / 8 ch
- External Trigger Input
- Remote Limit Alarming



M-System's R1M/R2M series is a high performance line of analog and discrete I/O modules. These modules feature individual channel configuration of input types and ranges. Field I/O connects directly to the R1M modules and data is transmitted via the Modbus RTU protocol over an RS-485 network. Additionally, the R1M/R2M provides an RS-232C port for portable host communications to a PC.

The R1M/R2M series is designed for remote I/O and laboratory data acquisition applications. Applications include tank level monitoring, flow monitoring, temperature profiling, discrete ON/OFF control and data logging. The Modbus RTU protocol enables interfacing with popular HMI and SCADA software packages.

The R1M/R2M includes PC recorder software that easily replaces expensive traditional chart recorders. The PC recorder software is fully featured enabling the logging, trending acquisition and analysis of application data. R1M/R2M hardware combined with PC Recorder software provides a low cost industrial grade data acquisition system.



R1M-P4



- Model RZUS-U9 USB Bus-powered  
12-point Universal Input Module**
- 5 V (approx. 0.25 A) powered through the USB cable
  - 12-point universal inputs independently configurable for each input
  - Supports 13 TC types, 12 RTD types, potentiometer and  $\pm 12$  Vdc inputs
  - Easily expandable via RS-485

**R1M Series RS-485 I/O Modules**

- R1M-GH2 16-point DC/TC inputs
- R1M-J3 16-point RTD/POT inputs
- R1M-A1 32-point dry contact input
- R1M-D1 32-point open collector output
- R1M-P4 Totalized pulse input



R1M-GH2 R1M-J3  
R1M-A1 R1M-D1



**Model R1MS RS-485 Fully Isolated  
8-point DC/TC Input Module**



**R2M Series RS-232 Modules**  
R2M-2G3 8-point DC inputs  
R2M-2H3 8-point TC inputs



**Model RZMS-U9 RS-485 Isolated  
12-point Universal Input Module**