

## ModBus and Rack Interface Specifications

The ModBus and Rack Interface Module is designed for high reliability for the plant's most critical rotating machinery. It reads parameters from all CSI 6500 modules and outputs these parameters via ModBus TCP/IP and/or ModBus RTU (serial). This 1-slot monitor is used together with other CSI 6500 monitors to build a complete API 670 machinery protection monitor. Applications include steam, gas, compressors and hydro turbo machinery.

Operators are provided machinery health parameters in the control environment for seamless integration. The module powers local graphical displays at the protection rack for machine and instrumentation readout. Either ModBus TCP/IP or ModBus RTU can be configured, or for redundant paths, can be used simultaneously.

The CSI 6500 is an integral part of PlantWeb® and AMS Suite. PlantWeb provides operations-integrated machinery health combined with the Ovation and DeltaV process control system. AMS Suite provides maintenance personnel advanced predictive and performance diagnostic tools to confidently and accurately determine machine malfunctions early.



A6824

A6824R

- 3U size, 1-slot plug-in module decreases cabinet space requirements in half from traditional 6U size cards
- API 670 compliant, hot swappable module
- Password protected user configuration
- Self-checking facilities include monitoring hardware, power input, and hardware temperature
- A6824 module can serve multiple 19" racks
- A6824 is a 6TE wide module, no redundant option, for use in the IMR6000 series, 19" rack
- A6824R is a 4TE wide module, redundancy optional, for use in the IMR6500 series, 19" rack

| <b>Data Output</b>            |  |
|-------------------------------|--|
| ModBus RTU (Serial)           | 19.2 kbaud<br>Data bits: 8<br>Parity: Even<br>Stop bit: 1                      |
| Default address               | IP address: 192.168.255.1<br>Subnet mask: 255.255.255.0                        |
| ModBus Ethernet               | RJ 45 socket, 10BaseT  |
| Green LED                     | Power supply OK  |
| Handle                        | Easily remove card and provide plate for module and sensor identification      |
| Example data types            | Speed, vibration (1/2x, 1x, etc.), gap value, alarm state, channel OK, phase,  |
| <b>Environmental, General</b> |  |
| Module                        | IP 00, DIN 40050   |
| Front plate                   | IP 21, DIN 40050   |
| Climate                       | DIN 40040 class KTF  |
| Operating temperature         | 0° to 65° C (32°-149° F)   |
| Storage temperature           | -30°-85° C (-22°-185° F)   |
| Relative humidity             | 5 to 95%, non condensing   |
| Vibration                     | IEC 68-2, part 6<br>0.15 mm, 10-55 Hz<br>19.6 mm/s <sup>2</sup> , 55 to 150 Hz |
| Shock                         | IEC 68-2, part 29<br>98 m/s <sup>2</sup> peak, 16 ms                           |
| EMC resistance                | EN50081-1 / EN50082-2  |
| Power consumption             | Max. 5 W   |



## Ordering Information

| Model Number | Product Description  |
|--------------|--|
| A6824        | ModBus and Rack Interface Module for use with IMR 6000/10, IMR 6000/20 and IMR 6000/30 |
| A6824R       | ModBus and Rack Interface Module with redundancy mode for use with CSI 6500 systems    |

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Online Machinery Health Management powers PlantWeb through condition monitoring of mechanical equipment to improve availability and performance.