Emerson EPRO Series Service Manual

A6824-R

1. Description

Emerson A6824R/A6824-R ModBus and Rack Interface Module

3. Product Information

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Emerson A6824R/A6824-R ModBus and Rack Interface Module

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 AMS 6500 modules and outputs these parameters via ModBus TCP/IP and/or ModBus RTU (serial). This 1-slot monitor is used together with other AMS 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 AMS 6500 is an integral part of PlantWeb® and AMS software. PlantWeb provides operations integrated machinery health combined with the Ovation® and DeltaV™ process control system. AMS software provides maintenance personnel advanced predictive and performance diagnostic tools to confidently and accurately determine machine malfunctions early.

Data Output

ModBus RTU (Serial) 19.2 kbaud

Data bits: 8

Parity: Even

Stop bit: 1

Default Address IP address: 192.168.255.1

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, 2X), gap

value, alarm state, channel OK, phase

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Environmental, General

Module IP 00, DIN 40050

Front Plate IP 21, DIN 40050

Climate DIN 40040 class KTF

Operating Temperature 0° - 65°C (32° - 149°F)

Storage Temperature -30° - 85°C (-22° - 185°F)

Relative Humidity 5 - 95%, non-condensing

Vibration IEC 68-2, part 6

 0.15 mm, 10 - 55 Hz

 19.6 mm/s2, 55 - 150 Hz

Shock IEC 68-2, part 29

 98 m/s2 peak, 16 ms

EMC Resistance EN50081-1 / EN50082-2

Power Consumption Max. 5 W

A6824-R Dimensions:

PCB/EURO card format according to

DIN 41494, 100 x 160mm (3.937 x 6.300in)

Width: 19.98mm (0.79in) (4 TE)

Height: 128.4mm (5.055in) (3 HE)

Length: 160mm (6.300in)

Net Weight: app 320g (0.705lbs)

Gross Weight: app 450g (0.992lbs)

includes standard packing

Packing Volume: app 2.5dm3

(0.08ft3

)

Space

Requirements: 1 slot

14 modules fit into each 19” rack

Ordering Information

Model Number Product Description

A6824-R ModBus and Rack Interface Module

with redundancy mode for use with

AMS 6500 systems

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