Woodward Woodward Series Service Manual

5464-213

1. Description

SPECIFICATIONS:

3. Product Information

SPECIFICATIONS:

Part Number: 5464-213

Manufacturer: Woodward

Product type: Netcon Serial Input/Output Module

Input Voltage: 24 Vdc

Maximum Operating Current: 12 V

Operating Temperature: -25°C to +70°C

Ports 1 and 2: RS-232 at 110-38.4 Kbaud

Software Support: Modbus RTU, Modbus ASCII

Power Supply: 10 - 60 VDC

Size: 30 Cm X 20 Cm X 25 Cm

Weight: 0.73 kg

Country of Origin: United States (USA)

FUNCTIONAL DESCRIPTION:

5464-213 is a Netcon Serial Input/Output Module manufactured and designed by Woodward as part of the 5400 Series used in Turbine Control Systems. The Netcon Serial Input/Output Module connects the VME bus to four serial communication ports. The module is in charge of four serial ports. Ports A (J1) and B (J2) are both RS-232 ports. Ports C (J3) and D (J4) support the RS-232, RS-422, and RS-485 communication protocols. When using 38.4 Kbaud or 57.6 Kbaud, Ports C and D must be at the same baud rate. This module's processor is a 68030. It manages data transfer between the ports and the VME bus. This module supports up to 4 KB of Dual-Port RAM and 64 KB of PROM. On this module, the local memory supports the 68030 processor. There is only one LED (FAULT) and no switches on the SIO module.

FEATURES:

Serial Communication Support:

The module supports serial communication standards such as RS-232, RS-485, or others, allowing connectivity with a wide range of serial devices.

Network Connectivity:

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Equipped with network interfaces (Ethernet, WiFi, etc.) for seamless integration into local or wide-area networks.

Multiple I/O Ports:

Provides multiple input and output ports for connecting to and communicating with various serial devices simultaneously.

Baud Rate Configuration:

Allows users to configure the baud rate, a crucial parameter for serial communication, ensuring compatibility with different devices.

Protocol Support:

Supports common communication protocols used in serial communication, facilitating interoperability with diverse devices.

Data Processing Capabilities:

Includes processing capabilities to handle and manipulate data received from serial devices before transmitting it over the network.

Modularity:

Modular design allows for scalability, enabling the addition of more modules as needed to accommodate a growing number of serial devices.

Remote Monitoring and Control:

Enables users to remotely monitor and control connected serial devices, providing flexibility and convenience.

Integration with SCADA Systems:

Designed for seamless integration with Supervisory Control and Data Acquisition (SCADA) systems for centralized monitoring and management.

Error Detection and Handling:

Implements robust error detection and handling mechanisms to ensure reliable communication and data integrity.

INTERFACE MODULE

NETCON 5000B SIO

PANEL MOUNT

4-PORT

W/ LED INDICATION