Woodward Woodward Series Service Manual

5464-648

1. Description

SPECIFICATIONS:

3. Product Information

SPECIFICATIONS:

Part Number: 5464-648

Manufacturer: Woodward

Product Type: Analog 8-Channel Output Module (4-20mA)

Dimension: 16cm*16cm*12cm

Weight: 0.91 kg

Country of Origin: United States

FUNCTIONAL DESCRIPTION:

5464-648 is an Analog 8 Channel Output Module (4-20mA) manufactured and designed by Woodward and used in Gas Turbine Control Systems. An analog 8-channel output module is a device used in industrial automation systems to provide analog output signals to control various processes. It typically interfaces with a programmable logic controller (PLC) or a distributed control system (DCS) and allows the system to control external devices or systems by generating analog voltage or current signals. Here are some key features and functions of an analog 8-channel output module:

Number of Channels: The module has eight independent analog output channels, allowing the system to control up to eight different devices or systems simultaneously.

Signal Type: The module can generate both analog voltage and current signals, depending on the application requirements. It provides a specific range for voltage (e.g., 0-10V) or current (e.g., 4-20mA) output, which can be configured based on the needs of the connected devices.

Resolution and Accuracy: The module has a defined resolution, which determines the smallest change in the output signal it can produce. Higher resolution results in finer control. Accuracy refers to the module's ability to generate output signals within a specified tolerance or deviation from the desired value.

Communication Protocol: The module typically supports a standard industrial communication protocol, such as Modbus, Profibus, or EtherCAT, to communicate with the PLC or DCS. This allows for easy integration into the overall control system.

Configuration and Programming: The module is configurable and programmable to suit specific application requirements. This includes setting the output ranges, scaling factors, and other parameters related to the control signals. The configuration and programming can be done using software tools provided by the module manufacturer.

Diagnostic and Status Indication: The module often includes diagnostic features to monitor the health and status of the outputs. This may include signal quality checks, fault detection, and reporting capabilities. LEDs or other indicators are commonly used to display the module's status and any error conditions.

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Electrical Isolation: To ensure electrical safety and prevent interference, the module typically provides electrical isolation between the input power supply, the control system, and the output signals. This helps protect the control system from potential voltage spikes or ground loops.

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