Woodward Woodward Series Service Manual

5466-1001

1. Description

SPECIFICATIONS

2. Specifications

Specification	Value
Operating	Temperature 0 to +55°C
Weight	48 lbs. (22 kg) when in Chassis
Series	MicroNet Digital Controllers
Power	Consumption max. 15.0 W, 13.5 W typical
Part	Number 5466-1000
Model	MicroNet Plus Digital Controller
Manufacturer	Woodward Inc, Fort Collins CO
Manuals	26167V1 and 26166V2
Input	Voltage 24 VDC (LVD and UL)
About	the 5466-1000
MicroNet	Digital Controller module 5466-1000 is a Power Supply unit that when connected will occupy up to two slots. The controller can be programmed into a number of different applications to control hydro/gas/steam turbines plus gas/diesel engines. This unit will be used with MicroNet-Plus models that feature simplex or redundant CPUs. The 5466-1000 module is one of the SIL Approved MicroNet-Plus units that can be used with a “kitted” safety system.

3. Product Information

www.autronexa.com

SPECIFICATIONS

Part Number: 5466-1001

Manufacturer: Woodward

Product type: Digital Controller Power Supply Module

Availability: In Stock

Maximum Stub Length: 300 mm

Dimensions: H461mm x W265mm x D59mm

Network Isolation: 0-60 Hz: 1000 Vrms

Speed Sensing: 1 to 30 Vac

Output Voltage Rating: 24VDC, 16A

Availability: In Stock

Weight: 22 kg in Chassis

Functional Description

5466-1001 is a Digital Controller Power Supply Module developed by Woodward. When power supplies are in use, current sharing circuitry balances the load to reduce heat and improve power supply reliability. If one of the power supplies fails, this feature allows for the power supplies to be replaced while the control is still running. Power supply has four LEDs that indicate the health of the power supply (OK, Input Fault, Overtemperature, and Power Supply Fault).

Features

The power requirements for each system are determined by the number and type of modules supplied. Size the input power source for a system with a single I/O chassis according to the rating of the MicroNet TMR main power supply to which the source is connected.

When using redundant supplies, do not size the supply mains for the sum of the MicroNet TMR main power supply ratings. When MicroNetTM supplies are installed in the same chassis, they are redundant.

Redundant supplies share the load equally, but each must be able to handle the full load if one of the units fails. It is not recommended to connect both MicroNet main power supplies of a redundant pair to a single source, as failure of that source would disable the system. Multiple chassis systems that use MicroNet TMR main power supplies may have power supplies of the same model in different chassis that are connected to the same source.

Power Supply Fault LED

When one of the supply's four power converters fails, this red LED illuminates. If this LED is illuminated, look for a short circuit on any external devices that are connected to the control's power supply. The supply will resume normal operation once the short circuit has been removed.

If no short circuits are found, reset the supply by turning off the power for one minute. If the power supply is still not working after restoring input power, make sure it is properly seated to the motherboard connector. If the supply is properly seated but not working, it should be replaced.

5466-1000 Technical Specifications

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The front faceplate of the 5466-1000 unit has up to three RS-485 ports and a fault indicator that will light up red if there is an I/O lock. There are two ways in which the LED will light up, flashing or solid, when the LED is solid it indicates an error between the CPU and actuator and they are not communicating properly; when the LED is flashing it indicates that an internal problem is occurring and it is recommended that the 5466-1000 model replaced.

Since the 5466-1000 module is a power supply module when installing a new unit ensure that all of the edges of the circuit board are completely aligned and slowly push the unit into the slots until the connectors on the motherboard and modules make contact with each other. Another vital note is that the power to the supply must be disconnected before the module is installed.