General Specifications

GS 33K50E30-50E

Models AFV10S, AFV10D
Field Control Unit
Duplexed Field Control Unit
(for Vnet/IP and FIO, 19-inch Rack Mountable Type)

[Release 5]

■ GENERAL

This GS covers the hardware specifications of the Field Control Unit (FCU) which is the core of the control function of the Field Control Station (FCS).

■ HARDWARE SPECIFICATIONS

For the installation specifications and the environmental conditions common to the systems, refer to "Vnet/IP System Overview (Vnet/IP Edition)" (GS 33K01A10-50E).

Processor
VR5432 (133 MHz)

Main Memory Capacity
32 Mbyte

Memory Protection During Power Failure
Battery
Battery Back-up for Main Memory: Max. 72 hours
Battery Recharge Time: Min. 48 hours

FCU Status Contact Output
2 terminals (NC, C)
Contact Points open during FCU failure
Contact Rating: 30 V DC, max. 0.3 A

Communication Interface
Vnet/IP Interface: Dual-redundant

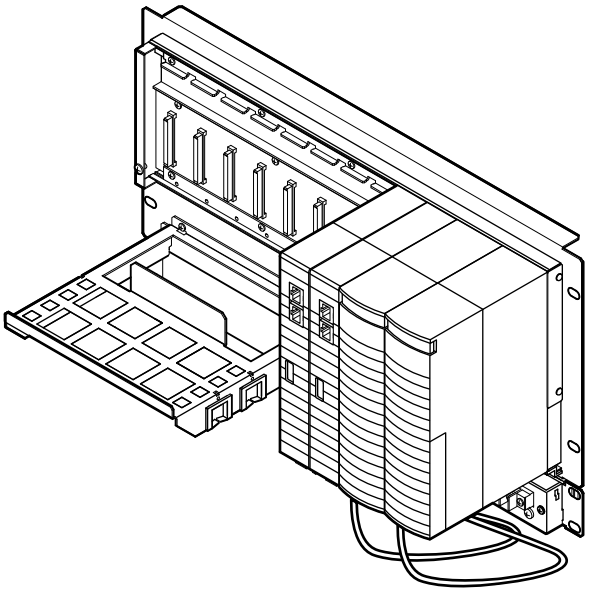
For more details, refer to "Integrated Production Control System CENTUM VP System Overview (Vnet/IP Edition)" (GS 33K01A10-50E).

No. of Node Units Connectable
Max. 14/FCU
The total number of ESB Bus Node Units and ER Bus Node Units that can be connected to FCU are 14 or less. (ESB Bus Node Units: 9 or less)
LFS1500 allows up to 3 nodes, and can be expanded to 14 if LFS1550 Application capacity Expansion Package (for AFV10☐) is added.
To connect a node unit to the FCU, a Node Unit Expansion License (Option code: /NDEL) is required for the node unit.

Module configuration
Power Supply Module (PW481 or PW482 or PW484): Two modules in case of a dual-redundant configuration.
Processor Module (CP451): Two modules in case of a dual-redundant configuration.
I/O Modules(*1): Max. 8

*1: Non-standard components.

ESB Bus Node Units Connection
When connecting an ESB Bus Node Unit to FCU, install ESB Bus Coupler Module (EC401) on FCU.
EC401 must be installed in slot 7 and slot 8.
For the dual-redundant configuration of the processor modules, EC401 must be installed in both slot 7 and slot 8.
In case ESB Bus has a single configuration, EC401 must be installed in slot 7 and keep slot 8 empty.



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[19-inch Rack Mountable Type FCU]

ER Bus Node Units Connection
When connecting an ER Bus Node Unit to FCU, install ER Bus Interface Master Module (EB401) on FCU.
To make single configuration, EB401 must be installed in an odd-number slot, and keep empty the right side of the installed EB401.
See "ER Bus Interface Master Module (for FIO)" (GS 33K50F40-50E) for further information.

Power Supply
Voltage: 100-120 V AC, Frequency: 50/60 Hz
Voltage: 220-240 V AC, Frequency: 50/60 Hz
Voltage: 24 V DC
Specify with Suffix Codes.

Power Consumption
100-120 V AC: 200 VA
220-240 V AC: 230 VA
24 V DC: 5.5 A

Weight
Approx. 7 kg (AFV10S)
Approx. 8 kg (AFV10D)

Mounting
19-inch Rack Mounting:
Rack mount (8 x M5 screws)
Insulation bush (accessory)

Connection
Power Supply: M4 screw terminal connection
Grounding: M4 screw terminal connection
Contact Output: M4 screw terminal connection
Network: Connect UTP cable (CAT5e or better) to Layer 2 switch.

YOKOGAWA

Yokogawa Electric Corporation
2-9-32, Nakacho, Musashino-shi, Tokyo, 180-8750 Japan
Tel.: 81-422-52-5634 Fax.: 81-422-52-9802

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