

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

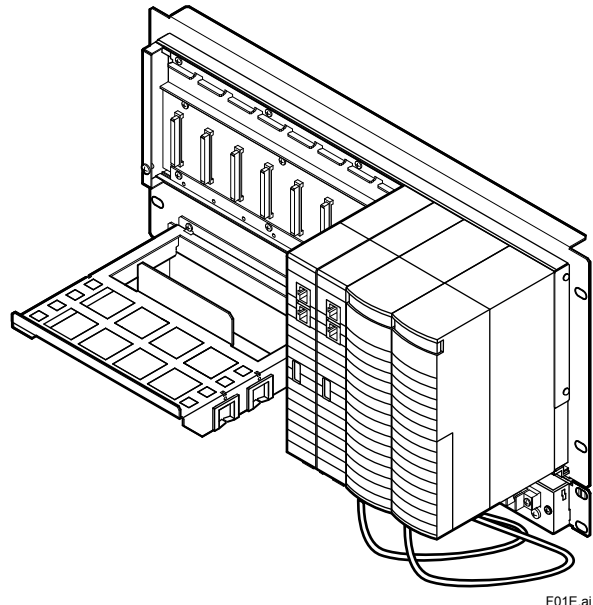
*1: Non-standard components.

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.

■ MODELS AND SUFFIX CODES

Field Control Unit

		Description
Model	AFV10S	Field Control Unit (for Vnet/IP and FIO, for 19-inch Rack Mountable)
Suffix Codes	-S	Standard type
	3	Dual-Redundant Vnet/IP, Single power supply
	4	Dual-Redundant Vnet/IP, Dual-Redundant power supply
	1	Always 1
	1	100–120 V AC power supply
	2	220–240 V AC power supply
	4	24 V DC power supply
	5	Basic type with no explosion protection
	6	With ISA Standard G3 option and no explosion protection
	E	Basic type with explosion protection
	F	With ISA Standard G3 option and explosion protection
	1	LFS1500 Control Function for Field Control Station (for Vnet/IP and FIO)
Option Code	/ATDOC	Explosion Protection Manual (*1)

*1: Select the option code "/ATDOC" to follow the ATEX Directive for use in potentially explosive atmospheres.

Duplexed Field Control Unit

		Description
Model	AFV10D	Duplexed Field Control Unit (for Vnet/IP and FIO, for 19-inch Rack Mountable)
Suffix Codes	-S	Standard type
	4	Dual-Redundant Vnet/IP, Dual-Redundant power supply
	1	Always 1
	1	100–120 V AC power supply
	2	220–240 V AC power supply
	4	24 V DC power supply
	5	Basic type with no explosion protection
	6	With ISA Standard G3 option and no explosion protection
	E	Basic type with explosion protection
	F	With ISA Standard G3 option and explosion protection
	1	LFS1500 Control Function for Field Control Station (for Vnet/IP and FIO)
Option Code	/ATDOC	Explosion Protection Manual (*1)

*1: Select the option code "/ATDOC" to follow the ATEX Directive for use in potentially explosive atmospheres.

Insulating Partition Kit

		Description
Part No.	T9083ND	Insulating Partition Kit

Configuration of Insulating Partition Kit

		Description
Part No.	T9083NE	Insulating Partition
	T9083NG	Insulating Partition for V net
	Y9306LB	2 screws for T9083NG

■ ORDERING INFORMATION

Specify model and suffix codes.

For selecting the right products for explosion protection, please refer to TI 33Q01J30-01E without fail.

■ TRADEMARK

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