General Specifications

Model AVR10D Duplexed V net Router



GS 33K50D10-50E

[Release 5]

■ GENERAL

These Bus Converters connect CENTUM VP Human Interface Stations (HISes) on the Vnet/IP to CENTUM VP/CENTUM CS 3000/CENTUM CS stations on the V net, CENTUM CS 1000 stations on the VL net in other domain.

To connect to CENTUM CS 3000/CENTUM CS System, LHS4450 Multiple Project Connection Package and LHS5450 Multiple Project Connection Builder are required. To connect to CENTUM CS 1000 System, an Ethernet, as well as these packages, is also required.

■ HARDWARE SPECIFICATIONS

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

Communication on the Vnet/IP Side

Communication Speed: 100 Mbps, Full Duplex Connection: UTP cable (CAT5e or better), RJ45 connector

Interface: 100Base-TX compliance

Max. distance: 100 m (Distance between AVR10D

and Layer 2 switch)

Communication on the V net Side

Communication Speed: 10 Mbps Connection: Coaxial cable, BNC type

Dual-redundant or single

For CENTUM VP, CENTUM CS 3000 and CENTUM

CS

Communication on the VL net Side

Communication Speed: 10 Mbps Connection: Coaxial cable, BNC type Dual-redundant or single For CENTUM CS 1000

Configuration

Nest

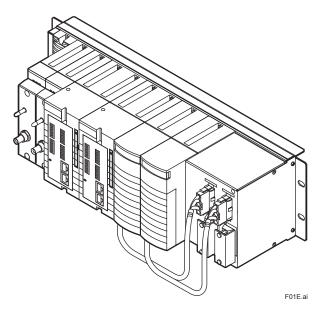
Mounting

19-inch Rack Mounting:

Rack mount (4 x M5 screws) Insulation bush (accessory)

Connection

Power Supply: M4 screw terminal connection Grounding: M4 screw terminal connection Contact Output: M4 screw terminal connection V net and VL net Side: T-junction BNC connection Vnet/IP Side: UTP cable (CAT5e or better)



Power Supply

(Specify with Suffix Code)

Voltage: 100-120 V AC, Frequency: 50/60 Hz Voltage: 220-240 V AC, Frequency: 50/60 Hz

Voltage: 24 V DC

Power Consumption

100-120 V AC: 80 VA 220-240 V AC: 110 VA 24 V DC: 1.7 A

Power supply method dual-line or single power line

Weight

Approx. 5.8 kg

Regulatory Compliance

For the detailed information of following standards, see "System Overview (Vnet/IP Edition) (GS 33K01A10-50E)."

Safety Standards

[CŚA] (for 100-120 V AC power supply) [CE Marking] (for 100-120 V AC, 220-240 V AC, and 24 V DC power supply)

[EAC Marking] (for 100-120 V AC, 220-240 V AC, and 24 V DC power supply)

EMC Conformity Standards

[CE Marking] (for 100-120 V AC, 220-240 V AC, and 24 V DC power supply)

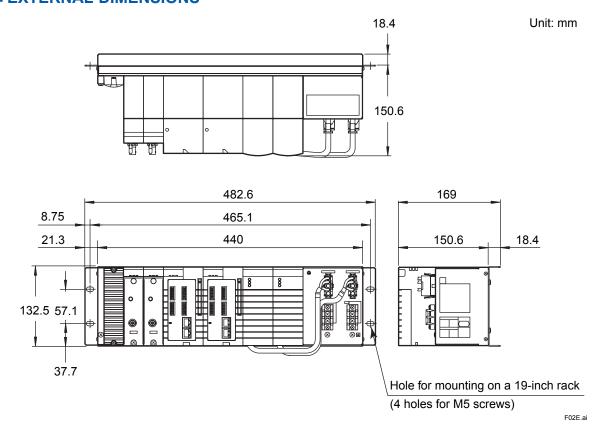
[RCM] (for 220-240 V AC and 24 V DC power supply)

[KC Marking] (for 100-120 V AC, 220-240 V AC, and 24 V DC power supply)

[EAC Marking] (for 100-120 V AC, 220-240 V AC, and 24 V DC power supply)



■ EXTERNAL DIMENSIONS



■ REQUIREMENTS FOR USING SEM (SEQUENCE OF EVENTS MANAGER)

To use SEM for Vnet/IP, firmware revision of VI451 should be R6 or later. (Firmware revision No. is indicated under "F" on the revision sticker on the component)

For details, refer to "SEM Sequence of Events Manager (for Vnet/IP and FIO)".(GS 33K30D10-50E)

■ MODELS AND SUFFIX CODES

Duplexed V net Router

		Description				
Model	AVR10D	Duplexed V net Router (Duplexed communication module, Duplexed power module)				
	-A1	For Single VL net				
	-A2	For Dual-Redundant VL net				
	-Q1	For Single V net (10BASE-2)				
	-Q2	For Dual-Redundant V net (10BASE-2)				
	1	Single Power Supply				
Suffix	2	Dual Power Supply				
Codes	0	Always 0				
	1	100-120 V AC Power Supply				
	2	220-240 V AC Power Supply				
	4	24 V DC Power Supply				
	0	Basic type				
	1	With ISA Standard G3 option				

Note: For compliance with EMC Standards, AVR10D must be installed in a keyed metallic cabinet.

■ ACCESSORIES AND SPARE PARTS

Parts Names	Parts Numbers	Description	Quantity	Remarks			
Insulating bush	S9049PM	-	4	Accessory			
Accessory assembly	S9768UK	AVR10D-□1	1	Accessory of VC401			
Accessory assembly	S9768UK	AVR10D-□2	2	Accessory of VC401			
Content of S9768UK							
Coaxial connector	A1120JA	-	1	T junction			
Cover	T9072MB	-	1				
Cover	T9072MC	-	1				

■ ORDERING INFORMATION

Specify model and suffix codes.

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