

General Specifications

Terminal Boards (for FIO)



GS 33J60H50-01EN

[Release 6]

■ GENERAL

This document describes the specifications of terminal boards used for FIOs of CENTUM VP systems.

■ STANDARD SPECIFICATIONS

Model	Description	Points	Terminals	Modules Connected	Connection Cable	Weight	Specifications
AEA3D	For 2-wire Transmitter (for single or dual redundant modules)	8 pts x 4	M4 screws	AAI135 AAI835 AAP135	KS1	Approx. 1.8 kg	Insulation resistance: 100 MΩ or greater at 500 V DC Withstanding voltage: 500 V AC for 1 minute
AEA4D	For analog signals (for single or dual redundant modules)	8 pts x 2	M4 screws	AAI135 AAI835 AAP135	KS1	Approx. 1.5 kg	
		16 pts x 2	M4 screws	AAI141 AAV141 AAV142 AAV144 AAB841 AAI841 AAV542 AAV544 AAI143 AAI543			
AET4D	For thermocouple (for single or dual redundant modules)	16 pts x 2	M4 screws	AAT145	KS1	Approx. 1.8 kg	
AED5D	For digital signals (for single or dual redundant modules)	32 pts x 1	M4 screws	ADV151 ADV551	AKB331	Approx. 1.5 kg	
				ADV161 (*1) ADV561 (*1)	AKB337		
AEF9D	For fieldbus (for single or dual redundant modules)	4 ports x 4	M4 screws	ALF111	AKB336	Approx. 1.8 kg	
AER4D	For resistance temperature detectors	16 pts	M4 screws	AAR145	AKB335	Approx. 1.5 kg	
MRT(*2)	For resistance temperature detectors	16 pts x 2	M4 screws	AAR145	KS8	Approx. 1.8 kg	

Note: Be sure to leave the connector caps on connectors that are not used, in order to protect the connector pins and prevent dust from accumulating on them.

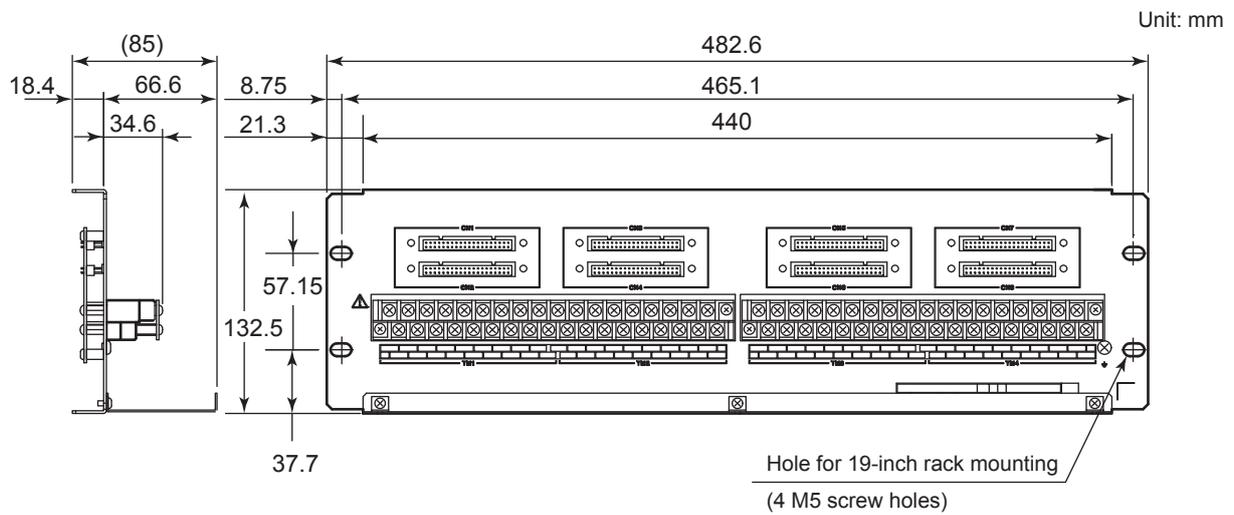
*1: Two sets of AED5D or AKB337 are required for one set of ADV161 or ADV561.

*2: For details on the MRT, see GS 33K55R40-50E.

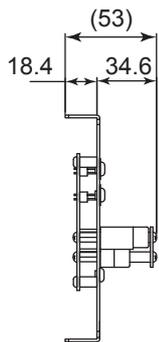
EXTERNAL DIMENSIONS

Terminal Boards

AEA3D



When option code is "/NTRY"



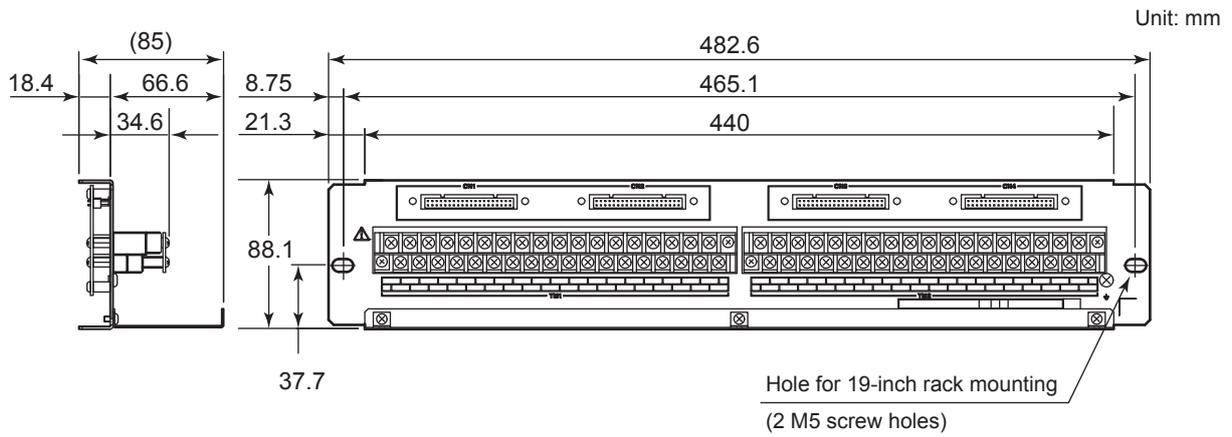
F01E.ai

Nominal Tolerances :

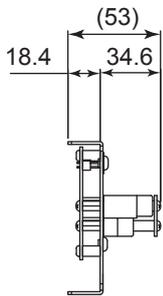
Nominal tolerance is ± 0.8 mm for the dimensions of 0.5 mm or more and 120 mm or less, and the combined nominal tolerance is ± 1.5 mm

The nominal tolerance is in accordance with JEM 1459 for the dimensions over 120 mm.

AEA4D, AET4D



When option code is "/NTRY"



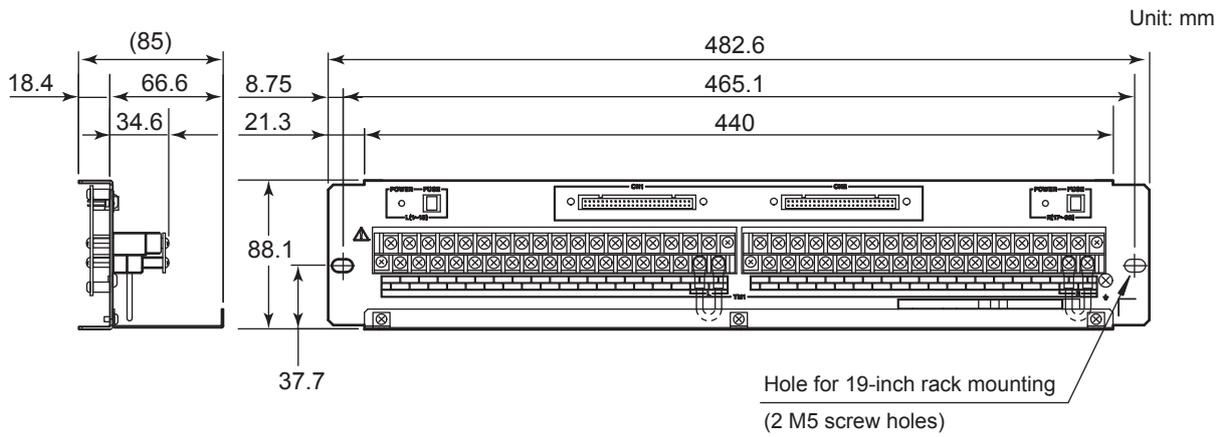
F02E.ai

Nominal Tolerances :

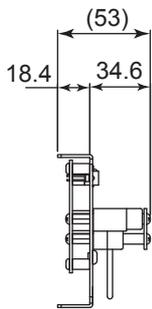
Nominal tolerance is ± 0.8 mm for the dimensions of 0.5 mm or more and 120 mm or less, and the combined nominal tolerance is ± 1.5 mm

The nominal tolerance is in accordance with JEM 1459 for the dimensions over 120 mm. in accordance with JEM 1459.

AED5D



When option code is "/NTRY"



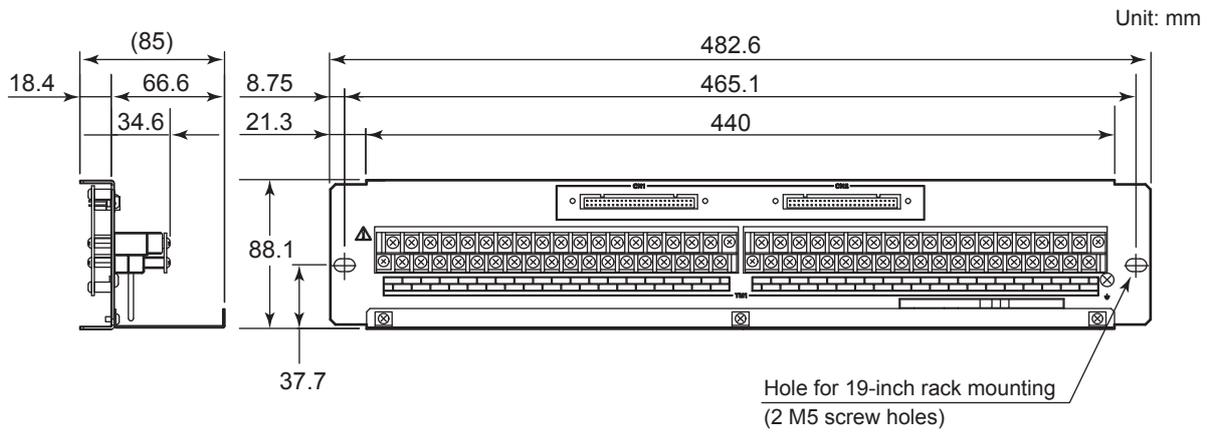
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Nominal Tolerances :

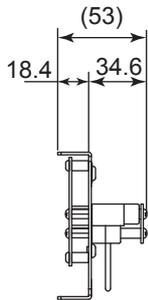
Nominal tolerance is ± 0.8 mm for the dimensions of 0.5 mm or more and 120 mm or less, and the combined nominal tolerance is ± 1.5 mm

The nominal tolerance is in accordance with JEM 1459 for the dimensions over 120 mm. in accordance with JEM 1459.

AER4D



When option code is "/NTRY"



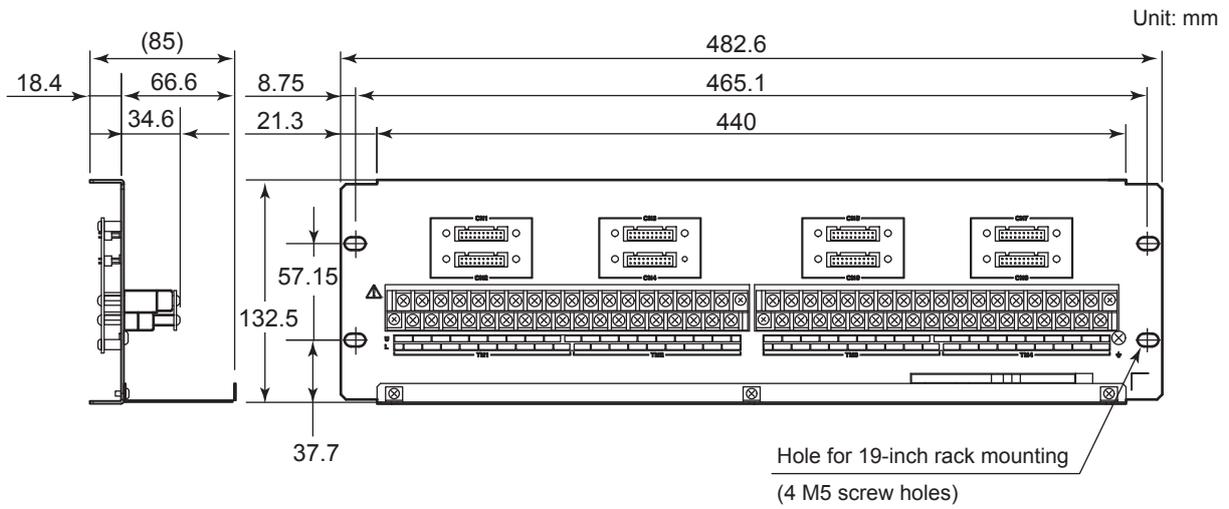
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Nominal Tolerances :

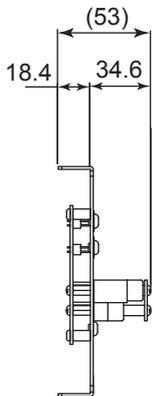
Nominal tolerance is ± 0.8 mm for the dimensions of 0.5 mm or more and 120 mm or less, and the combined nominal tolerance is ± 1.5 mm

The nominal tolerance is in accordance with JEM 1459 for the dimensions over 120 mm.in accordance with JEM 1459.

AEF9D



When option code is "/NTRY"



F06E.ai

Nominal Tolerances :

Nominal tolerance is ± 0.8 mm for the dimensions of 0.5 mm or more and 120 mm or less, and the combined nominal tolerance is ± 1.5 mm

The nominal tolerance is in accordance with JEM 1459 for the dimensions over 120 mm. in accordance with JEM 1459.

■ MODELS AND SUFFIX CODES

Terminal Board for Analog (single and dual-redundant)

		Description
Model	AEA3D	Terminal Board for Analog (single and dual-redundant, 8-channel)
Suffix Codes	-0	Without surge absorber
	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
Option Code	/NTRY	Without cable tray

Terminal Board for Analog (single and dual-redundant)

		Description
Model	AEA4D	Terminal Board for Analog (single and dual-redundant, 16-channel)
Suffix Codes	-0	Without surge absorber
	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
Option Code	/NTRY	Without cable tray

Terminal Board for Thermocouple (single and dual-redundant)

		Description
Model	AET4D	Terminal Board for Thermocouple (single and dual-redundant, 16-channel)
Suffix Codes	-0	Without surge absorber
	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
Option Code	/NTRY	Without cable tray

Terminal Board for Digital (single and dual-redundant)

		Description
Model	AED5D	Terminal Board for Digital (single and dual-redundant, 32-channel)
Suffix Codes	-0	Without surge absorber
	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
Option Code	/NTRY	Without cable tray

Note: When the AED5D is used in voltage output mode, it does not conform to Non-Incendive standard.

Terminal Board for Resistance Temperature Detectors (single and dual-redundant)

		Description
Model	AER4D	Terminal Board for resistance temperature detectors (single and dual-redundant, 16-channel)
Suffix Codes	-0	Without surge absorber
	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
Option Code	/NTRY	Without cable tray

Terminal Board for Fieldbus (single and dual-redundant)

		Description
Model	AEF9D	Terminal Board for Fieldbus (single and dual-redundant)
Suffix Codes	-0	Without surge absorber
	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
Option Code	/NTRY	Without cable tray

■ APPLICABLE STANDARDS

Refer to the GS "Integrated Production Control System CENTUM VP System Overview (GS 33J01A10-01EN)."

■ ORDERING INFORMATION

Specify models and suffix codes when ordering.
For selecting the right products for explosion protection, please refer to TI 33Q01J30-01E without fail.

■ TRADEMARK

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