

General Specifications

CP471 Processor Module



GS 33J60E30-01EN

■ GENERAL

This GS describes the hardware specifications of the processor module (CP471) which is mounted on the CENTUM field control units. Two CP471 can be used in dual-redundant configuration on a duplexed field control unit.

■ MODEL AND SUFFIX CODES

Processor Module

		Description
Model	CP471	Processor Module
Suffix Codes	-0	With no explosion protection
	-1	With explosion protection
	0	Basic type
	1	With ISA Standard G3 option

■ OPERATING CONDITIONS

- CP471 operates with CENTUM VP R5.01 or a later version of Control Function for Field Control Station. Be sure to apply the software patch for supporting CP471 for CENTUM VP R5.01, R5.02, R5.03, R5.04, R6.01, R6.02, R6.03, and R6.04.
- CP471 can be mounted only on the CENTUM field control units and Base Plate as shown below.
For CENTUM VP R5: AFV30S, AFV30D, AFV40S, and AFV40D
For CENTUM VP R6: AFV30S, AFV30D, AFV40S, AFV40D, A2FV50S, A2FV50D, A2FV70S, A2FV70D, and A2BE1D

Field control unit	Duplexed field control unit	Applicable CP471
AFV30S-A□□□■□ AFV30S-S□□□■□ (*1)	AFV30D-A□□□■□ AFV30D-S□□□■□ (*1)	■ = 0: CP471-□0 (*2), 1: CP471-□1 (*2), 5: CP471-00, 6: CP471-01, E: CP471-10, F: CP471-11
AFV40S-A□□□□□ AFV40S-S□□□□□ (*1)	AFV40D-A□□□□□ AFV40D-S□□□□□ (*1)	CP471-00
A2FV50S-A□□□◆□ A2FV50S-S□□□◆□ (*1)	A2FV50D-A□□□◆□ A2FV50D-S□□□◆□ (*1)	■ = 0: CP471-0□, 1: CP471-1□ ◆ = 0: CP471-□0, 1: CP471-□1
A2FV70S-A□□□◆□ A2FV70S-S□□□◆□ (*1)	A2FV70D-A□□□◆□ A2FV70D-S□□□◆□ (*1)	◆ = 0: CP471-00, 1: CP471-01
A2BE1D-□0□□ (Base Plate only. Each module is ordered separately.)		CP471-0□
A2BE1D-□1□□ (Base Plate only. Each module is ordered separately.)		CP471-1□

- *1: These field control units are shipped with processor module CP461. Existing CP461 can be replaced with CP471.
- *2: For AFV30□, ■ = 0 and 1 are applicable to only AFV30□-S□□□■□. In applicable countries or areas of CE Marking and UKCA Marking:
- Except for explosion protection purpose
 - CP471-00 can be mounted on AFV30□-S□□□0□.
 - CP471-01 can be mounted on AFV30□-S□□□1□.
 - For the purpose which requires an explosion protection standard.
 - CP471 cannot be mounted on AFV30□-S□□□0□ and -S□□□1□.
- In the countries and areas other than applicable countries or areas of CE Marking and UKCA Marking:
- Except for explosion protection purpose
 - CP471-00 can be mounted on AFV30□-S□□□0□.
 - CP471-01 can be mounted on AFV30□-S□□□1□.
 - For the purpose which requires FM NI explosion protection standard. (*)
 - CP471-10 can be mounted on AFV30□-S□□□0□.
 - CP471-11 can be mounted on AFV30□-S□□□1□.
- *: AFV30□-S□□□0□ and -S□□□1□ comply with only FM NI as an explosion protection standard.

- CP471 can be combined with the style code S3 or later of ESB bus coupler module EC401.

■ HARDWARE SPECIFICATIONS

For common installation environmental conditions and conforming standards, see System Overview (GS 33K01A10-50E and GS 33J01A10-01EN).

● Weight

Approx. 0.7kg

● Memory Protection During Power Failure

Battery

Battery Back-up for Main Memory: Max. 72 hours

Battery Recharge Time: Min. 48 hours

● Control Bus Interface

Vnet/IP Interface: Dual-redundant

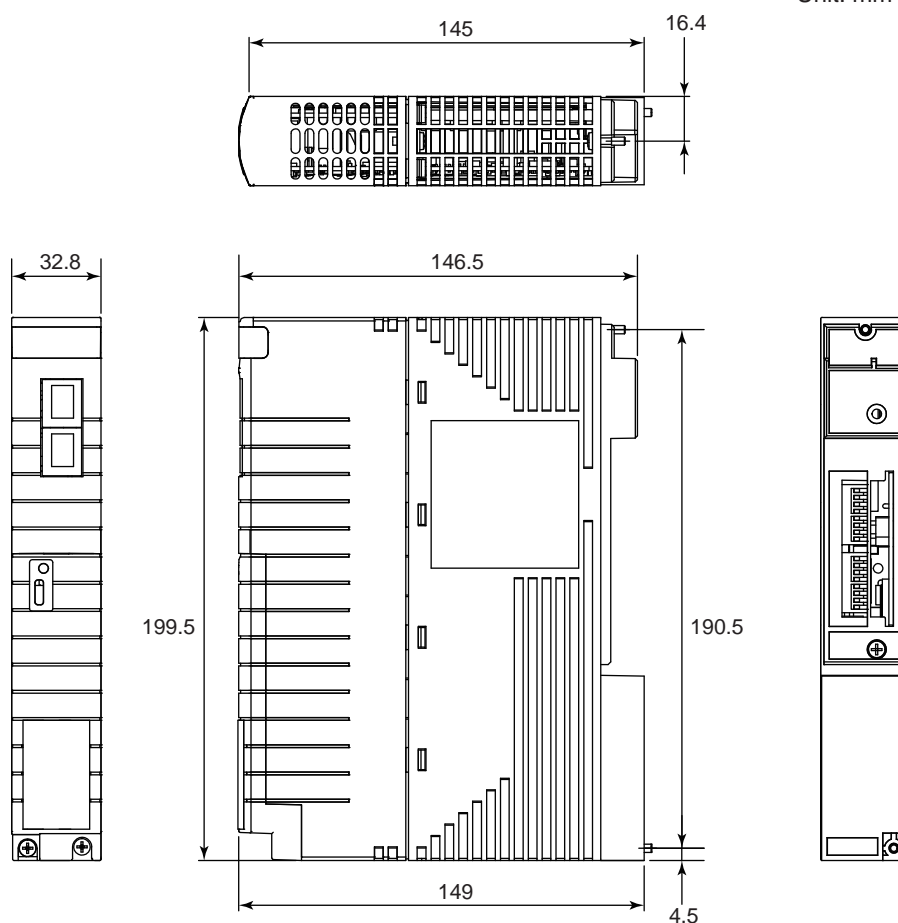
For details, refer to "Integrated Production Control System CENTUM VP System Overview" (GS 33J01A10-01EN)

■ MAINTENANCE INFORMATION

- On-line replacement of CP471 in dual-redundant configuration can be performed by the user.
- For replacement of existing CP461 with CP471.
 1. Software version of Control Function for Field Control Station must be R5.01 or later.
Be sure to apply the software patch for supporting CP471 for CENTUM VP R5.01, R5.02, R5.03, R5.04, R6.01, R6.02, R6.03, and R6.04.
 2. The style code of ESB bus coupler module EC401 which is used together with CP471 must be S3 or later.
 3. Replacement from CP461 to CP471 is prohibited to perform by a user.
This replacement must be done by the service engineer authorized by Yokogawa Electric Corporation.
 4. CP471 can not be co-existed with CP461 in dual-redundant configuration.
However, a pair of CP461 in dual-redundant configuration can be on-line replaced with a pair of CP471.
 5. Existing CP471 must not be replaced with CP461.

■ EXTERNAL DIMENSION

Unit: mm



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.

■ STANDARD ACCESSORY

CP471 is delivered with the following standard accessory.

Part Name	Part Number	Quantity
Processor Module Modification History Label	T9044AR	1

■ APPLICABLE STANDARDS

CP471 complies to the applicable standards as a part of the field control units (AFV30□, AFV40□, A2FV50□, and A2FV70□). In addition, CP471 complies to the applicable standards as a module.

For applicable standards of the field control units and CP471, see System Overview (GS 33K01A20-50E and GS 33J01A10-01EN).

■ ORDERING INFORMATION

Specify model and suffix codes.

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

■ TRADEMARKS ACKNOWLEDGMENT

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