General Specifications

Model EC402
ESB Bus Coupler Module
(for AFV30□/AFV40□, 2-Port)

CENTUM VP

Vnet/IP ®

GS 33K50E51-50E

[Release 5]

■ GENERAL

The ESB Bus Coupler Module is a communication module to connect the Field Control Unit and the Node Unit for ESB Bus via the ESB bus.

This module can be installed in the Field Control Unit for FIO (AFV30S, AFV30D, AFV40S, AFV40D).

By installing two modules in the Field Control Unit for FIO, dual-redundant ESB bus can be configured.

EC402 has two ESB bus connector ports on the front of the module and accommodates a larger number of connected nodes than EC401, so it can offer a longer transmission distance.

■ STANDARD SPECIFICATIONS

Function: ESB bus master interface function
Number of connectable nodes (*1): Upper side : Max. 9 units, Lower side : Max 9 units, Total: Max. 13 units.
Transmission speed: 128 Mbps (I/O module data transmission)
Transmission distance: Upper side: Max. 10 m, Lower side: Max. 10 m, Total: Max. 20 m
Current consumption: 0.5 A
Weight: 0.24 kg
   *1:   This varies depending on the FCS database.

If ESB bus is non- redundant, the ESB Bus Coupler Module needs to be installed in the 7th slot of AFV30S, AFV30D, AFV40S, or AFV40D and slot 8th must be covered by a dummy module.

And when ESB bus is dual-redundant, the modules need to be installed in both the 7th and 8th slots.
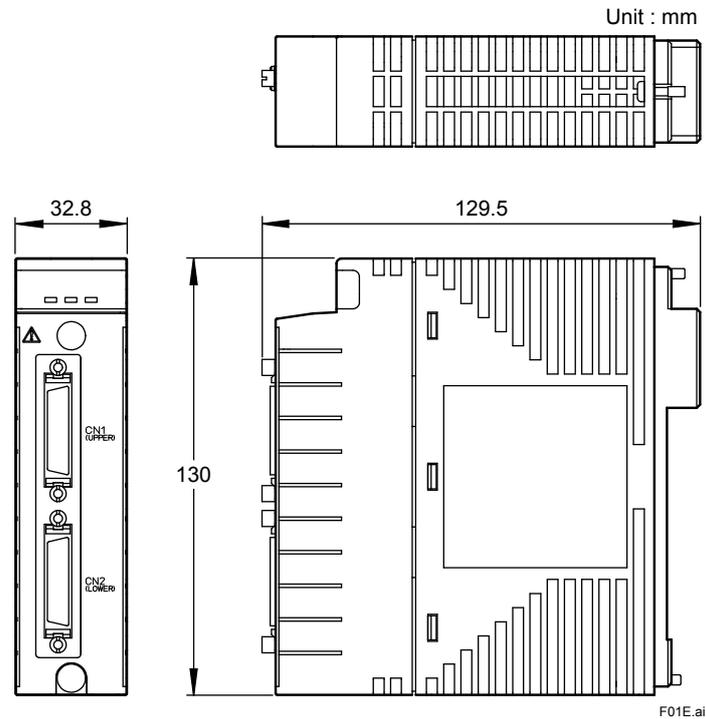
■ REQUIREMENTS FOR USING SEM (Sequence of Events Manager)

For using SEM, the hardware requires some conditions.

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

■ EXTERNAL DIMENSION

EC402 ESB Bus Coupler Module

Unit : mm

F01E.ai

■ MODEL AND SUFFIX CODES

Model		Description
Model	EC402	ESB Bus Coupler Module (for AFV30□/AFV40□, 2-Port)
Suffix Codes	-5	Standard type with no explosion protection
	-E	Standard type with explosion protection
	0	Basic type
	1	With ISA Standard G3 option

■ ORDERING INFORMATION

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

■ TRADEMARK

- CENTUM and Vnet/IP are registered trademark of Yokogawa Electric Corporation.
- Other product and company names appearing in this document are trademarks or registered trademarks of their respective holders.