General Specifications

GS 33G06K12-01E

Models ANS11, AND11
Communication Node Interface Unit
Models ACM21, ACM22
Communication Cards

CENTUM CS

■ GENERAL

The ANS11/AND11 Communication Node Interface Units are used for communication with subsystems connected to an RIO bus. These rack-mountable units consist of power supply, RIO bus interface card, and communication card slots. The AND11 has dual-redundant power supply and RIO bus interface cards. The ACM21 Communication Card is used for an RS-232C interface and the ACM22 for an RS-422/RS-485 interface. Up to four communication cards can be installed in the Communication Node Interface Units.

■ HARDWARE SPECIFICATIONS

For installation and environmental conditions common to the system, see "System Specifications (GS 33G01B10-01E)."

Card Configuration

One RIO bus interface unit or two units for redundancy

One power supply or two power supplies for redundancy: Supplies power to RIO bus interface card(s), ACM21/ACM22

Connection

Power supply: M4 screws

Restrictions

For one Communication Node Interface Unit, up to four ACM21/ACM22 Communication Cards can be installed.

Power Supply

(Specify with suffix codes)

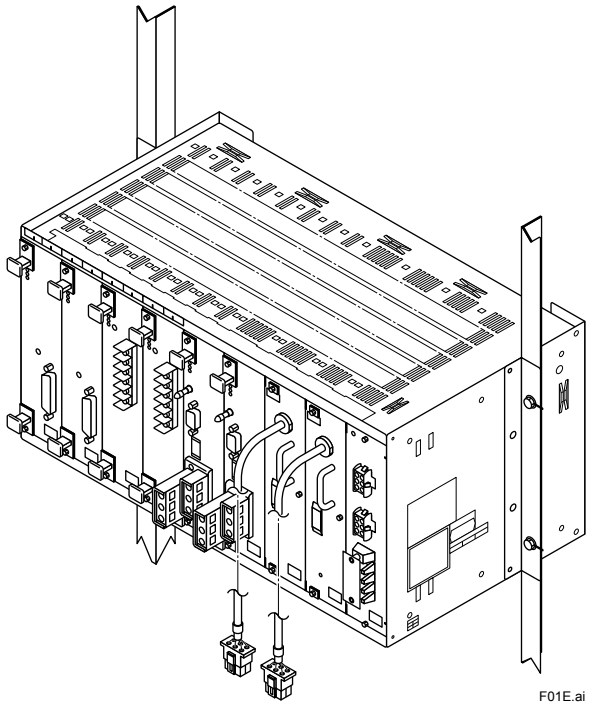
100-120 V AC, 50/60 Hz
220-240 V AC, 50/60 Hz
24 V DC

ANS11/AND11 Processor Power Consumption

100-120 V AC: 150 VA
220-240 V AC: 200 VA
24 V DC: 4 A

Weight

ANS11: 9 kg
AND11: 10 kg



AND11 Installation Example

Regulatory Compliance

For the detailed information of following standards, see "System Specifications (GS 33G01B10-01E)."

Safety Standards

[CSA] (for 100-120 V AC power supply)
[CE Mark] (for 220-240 V AC power supply)

EMC Conformity Standards

[CE Mark] (for 220-240 V AC power supply)
[C-Tick Mark] (for 220-240V AC power supply)

YOKOGAWA

Yokogawa Electric Corporation
2-9-32, Nakacho, Musashino-shi, Tokyo, 180-8750 Japan
Tel: 81-422-52-5634 Fax: 81-422-52-9802

GS 33G06K12-01E

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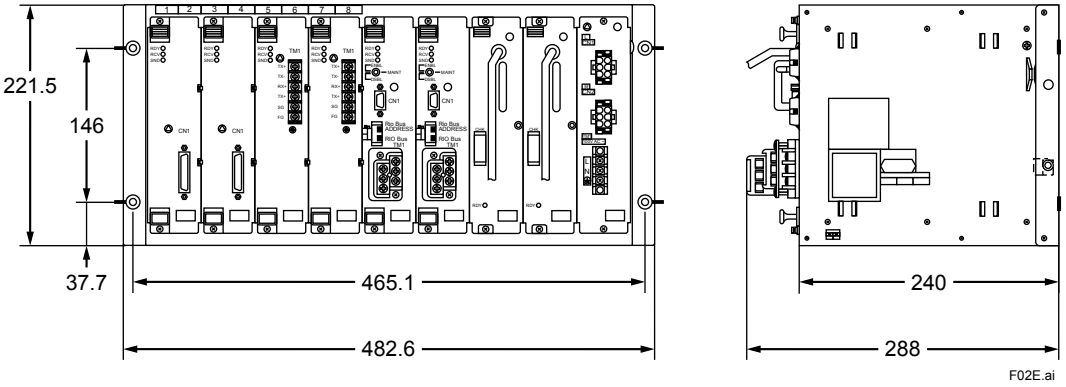
■ EXTERNAL DIMENSIONS

ANS11, AND11

Unit: mm



■ MODELS AND SUFFIX CODES

Communication Node Interface Unit for Single RIO Bus

[Style: S1]

		Description
Model	ANS11	Communication Node Interface Unit for Single RIO Bus
Suffix Codes	-S	Standard type
	1	Single power supply
	2	Dual-redundant power supplies
	1	100-120 V AC Power Supply
	2	220-240 V AC Power Supply
	4	24 V DC Power Supply

Communication Node Interface Unit for Dual-redundant RIO Bus

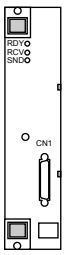
[Style: S1]

		Description
Model	AND11	Communication Node Interface Unit for Dual-redundant RIO Buses
Suffix Codes	-S	Standard type
	4	Dual-redundant power supplies
	1	100-120 V AC Power Supply
	2	220-240 V AC Power Supply
	4	24 V DC Power Supply

■ ACM21/22 COMMUNICATION CARDS

These RIO bus cards provide a serial communication line to interface PLCs and other subsystems to a field control station.

ACM21



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Item	Specifications	
Model	ACM21	ACM22
Interface	RS-232C (1 port)	RS-422 or RS-485 (1 port)
Connection	Point-to-point	Point-to-point, Multipoint
Mode	Half-duplex	
Synchronization	Start-stop asynchronous	
Communication speed	1200/2400/4800/9600/19200/38400 bps	
Transmission code	ASCII/binary	
Character length	7/8 bit	
Stop bit length	1/2 bit	
Parity check	None/odd/even	
When a signal is received after data transmission	1 ms (standard)	1 ms
Transmission distance	Max. 15 m	Max. 100 m (Total length)
How installed	Installed in the Communication Card Nest	
Wiring	KB3, AKB141 (RS-232C modem) KB4, AKB142, AKB143, AKB144 (RS-232C null-modem) cable	3 pair shielded cable AKB161, AKB162
How connected	D-sub 25 pin (female)	Connected to terminal block (6 terminals) by M4 screws.
Current consumption	1 A (5.0 V DC)	

■ ORDERING INFORMATION

Specify the model and suffix codes.

■ TRADEMARKS

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