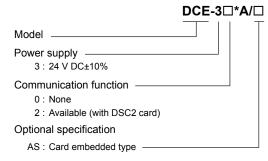
GS 77J05Y51-01E

■ General

The DCE is a connecter-connection type 16-unit mounting nest. It is available for connection with DCS I/O modules for the CENTUM series of Yokogawa Electric Corporation.

 Ranges and parameters can be set using DSC2 or the VJ77 Parameters Setting Tool. (The availability depends on the model of signal conditioners.)

■ Model and Suffix Codes



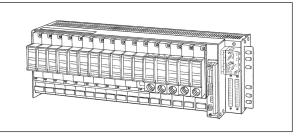
■ Ordering Information

Specify the following when ordering.

• Model and suffix codes: e.g. DCE-32*A

■ Standard Performance

Insulation resistance: 100 MΩ or more at 500 V DC between input and power supply, input and ground, input and CN1-CN2, power supply and ground, power supply and CN1-CN2, and ground and CN1-CN2.



Withstand voltage: 1500 V AC/min. between input and (power supply and ground and CN1-CN2).

500 V AC/min. between power supply and ground, ground and CN1-CN2, and power supply and CN1-CN2.

Operating temperature range: 0 to 50°C Operating humidity range: 5 to 90% RH (no condensation)

■ Mounting and Dimensions

Connection cable: KS2 (CN1, CN2)
I/O signal connection: M4 screw terminals
Power supply and ground connection:
M4 screws terminals

I/O cable shield connection: M3 screw terminal Mounting method: Rack or Wall mounting (horizontal

mounting)

Nest mounting screw: M5 screws

Color: Black

Weight: Approx. 3.8 kg

Standard Accessories

Plate: Installed on the empty slot when shipping

Mounting bracket: 1 pair Tag number label: 16

■ DCS Connection Modules and Signal Conditioners

Modules connectable with CN1		Equipments connectable with CN2	Signal conditioners mountable for each slot				
			Slot	Models			
Analog input: 16 points		AAV141/K4A00 (*1) AAB141/K4A00 (*1) AMM12C (*2) VM1 (*3)	Indicators, recorders, and alarm setters etc. through terminal blocks.	1 to 16	DA1, DA2, DA5, DH1, DH2, DH5, DM1, DT5, DR5, DRU, DS1, DP3, DF1, DB1, DG1, DD1, DSK (Note1), DX1, DA7 (Note 3)		
Analog I/O: 16 points	Input: 8 points	AAB841/V4A00 (*1) AAB842/V4A00 (*1) VM2 (*3)	Indicators, recorders, and alarm setters etc. through terminal blocks.	1 to 8	DA1, DA2, DA5, DH1, DH2, DH5, DM1, DT5, DR5, DRU, DS1, DP3, DF1, DB1, DG1, DD1, DSK (Note1), DX1, DA7 (Note 3)		
	Output: 8 points			9 to 16	DA0, DH0, DQ0, DSK (Note1), DX1 (Note2)		
Analog output: 16 points		AAV542/K4A00 (*1) AAV544/K4A00 (*1) VM4 (*3)		1 to 16	DA0, DH0, DQ0, DSK (Note1), DX1 (Note2)		
Pulse train input: 16 points		AAP149 (*1) PM1 (*3)	Pulse counters etc. through terminal blocks.	1 to 16	DP1, DSK (Note1), DX1 (Note2)		

^{*1:} FIO module of CENTUM VP/CS3000, *2: RIO module of CENTUM CS3000/CS1000, *3: I/O card of CENTUM XL/XL/V Note1: DSK is not connectable to DCS. DSK mounted to the slot can not send or receive signals through CN1/CN2. Note2: DX1-21N*A and DX1-31N*A (when 250Ω is selected) can not be mounted to this nest.

Note3: Only the AAB141/K4A00 and AAB842/V4A00 modules can be connected to this nest.



■ Assignment of Input/Output Terminals

I/O screw terminal: M4 x 0.7, I/O signal piping: Rc1/4 female screw

Signal Conditioners		Field side I/O terminal			Front terminal of the signal conditioner				
		Α	В	С	1	2	3	4	AIR
DM1		+	Not Connected	_	Not	Not	+	-	
				_	Connected	Connected	For O	utput 2	
DT5		+		Not	Not	+ –			
D10				Connected	Connected	For Output 2			
DR5					Not	+	_		
DINO		Wiring resistance of A and B should be equal			Connected	For Output 2			
DRU		Ľ.,	RTD W	Ĵ	Ŷ	Î	+	_	-
							For O	utput 2	
DS1	DS1		100% CENTER W		Not Connected	Not	+	-	
		Wiring resistance of A a		should be equal	Connected	Connected	For O	utput 2	
	2-wire type (Voltage contact)	+	Not Connected	-			Not Co	nnected	
DP1	Internal power supply 2-wire type	Signal	Power supply	Not	Not	Not	+	_	
DP3	1 113 31	Oignal Tower supply		Connected	Connected	Connected		utput 2	
	Internal power supply 3-wire type	+	Power supply –					nnected	
DH1. [DH2, DH5	+	Not Connected	_	Not	Not	+	_	_
				::: 5455	Connected	Connected		utput 2	
DA1, D	DA2, DA5	Available for the combination with BARD		Not	Not	+	-	_	
				wer supply		Connected	For Output 2		_
DA7		transmitter is not necessary				Not Connected			
DH0, DA0, DQ0		+	Not Connected	_	Not Connected	Not Connected	Not Co	nnected	
DX1		+	Not Connected	-		Not Connected	Not Connected		
DG1		Not Connected Not Connected		d Not Connected	Vo u v o± U X V L		+	_	
							For O	utput 2	
DB1		Not Connected Not Conn	Not Connected	tod Not Connected	AQ k l 9±		+	-	
			Not Connected Not Connected	K L		For O	utput 2		
DD1		Not Connected Not Conne	Not Connected	nnected Not Connected	13		+	_	
							For O	utput 2	
DF1		Not Connected	Not Connected	Not Connected	+ – For Output 2			nnected	INĢ
DSK		+ Not Connec		_ l _t	NO/NC	COM	NO/NC	COM	
					Output 1		Out	out 2	

[•] In case the Output 2 signal is DC current, it can be outputted from either "CN2" or "front terminals of the signal conditioner".

System side connecting cable

	•	
Connector No.	Signal	Cable model
CN1	System side connection signal	KS2
CN2	Output 2 connection signal	KS2

CN1/CN2

| CN1/CN2 | Slot No. | CN1/CN2 | Pin No. | CN1/CN2 | Pin No. | Pin No. | Slot No. | Pin No. | CN1/CN2 | Pin No. | CN1/CN2 | Pin No. | Pin No. | CN1/CN2 | Pin No. | CN1/CN2 | Pin No. | CN1/CN2 | Pin No. | Pin No. | CN1/CN2 | Pin No. | Pi

35	3		15	13	
34 33	4	+	14 13	14	+
32 31	5	+	12 11	15	+
34 33 32 31 30 29 28 27	6	+	10 09	16	+
28 27	7	+	08 07		_
26 25	8	+	06 05		
26 25 24 23 22 21	9	+	04 03 02		
22 21	10	+	02 01		

CN1/CN2 connector pin assignment

Slot No.

11 12

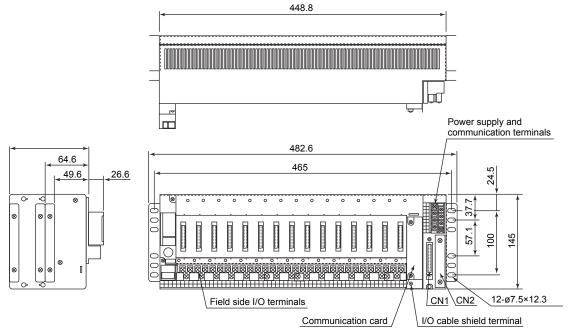
■ Assignment of Power Supply and Communication Terminals

\otimes	
4	2
(5)	(3)
6	

Terminal number	DC	CE-30*A	DCE-32*A		
1	+		+		
2	_	24 V DC	_	24 V DC	
3	GND		GND		
4			A(-)		
5			B(+)	RS-485	
6			SG		

■ External Dimensions

Unit: mm



Note A mounting method is limited to horizontal installation in 19 inch rack of the EIA/JIS-standard.

■ Basic Conditions and Individual Contracts at the Time of Purchase

The warranty for this product is defined in the basic conditions and individual contracts at the time of purchase. The individual conditions are as follows.

· Handling of non-conforming products

If Yokogawa verifies a non-conformity of the product that is attributable to Yokogawa within the warranty period, we will deliver an equivalent product.

Yokogawa can not provide a free evaluation of non-conforming products. The investigation of the non-conforming products will be performed at the expense of the customer.