General Specifications

Model DCE Nest for I/O cards

NTXUL

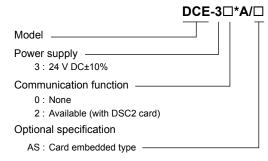
GS 77J05Y51-01E

■ General

The DCE is a connecter-connection type 16-unit mounting nest. It is available for mixed mounting of electronic and pneumatic signal conditioners, and connection with DCS I/O modules for CENTUM series of Yokogawa Electric Corporation.

 Ranges and parameters can be set using DSC2 or the JHT200, Yokogawa handy terminal. (The availability depends on the model of signal conditioners.)

■ Model and Suffix Codes



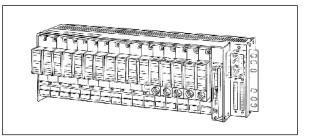
■ Ordering Information

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

			Equipments connectable with CN2	Signal conditioners mountable for each slot				
Modules connectable with CN1		Slot Models						
Analog input: 16 points		AAV141/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			
Analog I/O: 16 points	Input: 8 points	AAB841/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			
	Output: 8 points			9 to 16	DA0, DH0, DQ0, DSK (Note1), DX1 (Note2)			
Analog output: 16 points		AAV542/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 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.



■ Assignment of Input/Output Terminals

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

A B C 1 2 3 4 AIR	Signal Conditioners		Field side I/O terminal			Front terminal of the signal conditioner				
DM1 DT5 DR6 DR7 DR7 DR7 DR7 DR7 DR7 DR7			Α	В	С	1	2	3	4	AIR
DR5 DR5	DM1		+		_					
DRU DRU DRU DRU DRU DRU DRU									utput 2	
DRU DRU DRU DRU DRU DRU DRU	DT5		+						-	
DRU CENTER								For O	utput 2	
DRU 100% CENTER 0%	DR5		1 111					+	_	
DRU 100% CENTER 0%			Wiring resistance of A and B should be equal					For O	utput 2	
DS1	DRU		1 1			Ŷ			_	
DST Wiring resistance of A and C should be equal For Output 2								For O	utput 2	
2-wire type (Voltage contact)	DS1		100% CE	,	0%			+	_	
DP1			Wiring resistance of A and C should be equal					For O	utput 2	
Internal power supply 2-wire type		2-wire type (Voltage contact)	+		-					
DP3	DP1	Internal nower supply 2-wire type	Signal	Power supply				+	-	
DH1, DH2, DH5	DP3				wei supply			For O	utput 2	
DH1, DH2, DH5 +		Internal power supply 3-wire type	+	Power supply	_					
DA1, DA2, DA5 Available for the combination with BARD	DH1, E	DH2, DH5	+		_				_	
DA1, DA2, DA5 For 2-wire transmitter In case power supply is not necessary			Available for the combination with DADD					For O	utput 2	
DH0, DA0, DQ0	DA1 F	0A2 DAE	For 2-wire In case power supply				+	_		
DS1	DA1, DA2, DA5		transmitter is not necessary					For O	utput 2	
DG1 V U V O O O O O	DH0, DA0, DQ0		+		-					
DB1 DB1 AQ k	DX1		+		1					
DB1 DB1 DB1 DD1 DD1 DF1 DF1 DF1	DG1					l " V		+	-	
DB1							For O	utput 2		
DD1	DB1					AQ k l 9±		+	-	
DD1					K ✓ L		For O	utput 2		
# - IN	DD1								utput 2	
DF1	DF1						+ -			<u></u>
NO/NC COM NO/NC COM										INŸ
DSK + Output 1 Output 2	DSK							NO/NC	СОМ	
			†		_		Output 1		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

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

CN1/CN2

CN1/CN2 connector pin assignment CN1/CN2 Slot No. CN1/CN2 Slot No. Pin No. Slot No.

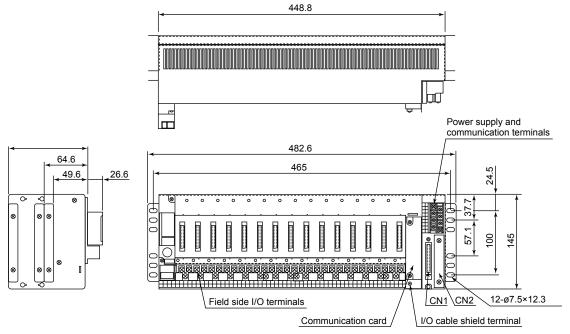
■ Assignment of Power Supply and Communication Terminals

\otimes	1
4	2
(5)	3

Terminal number	DC	CE-30*A	DCE-32*A		
1	+		+		
2	_	24 V DC	_	24 V DC	
3	GND		GND		
4			A(-)		
5				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.