General Specifications

Model DCP Nest for I/O cards (E/P Mixed Mounting Type) **NTXUL**

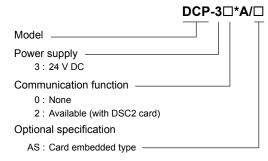
GS 77J05Y52-01E

■ General

The DCP 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 VJ77 Parameters Setting Tool. (The availability depends on the model of signal conditioners.)

■ Model and Suffix Codes



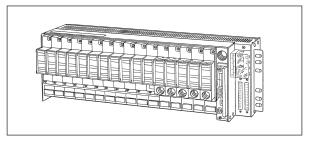
■ Ordering Information

Specify the following when ordering.

• Model and suffix codes: e.g. DCP-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

Air inlet hole: Rc 3/8 female screw x 2

Mounting method: Rack or Wall mounting (horizontal

mounting)

Nest mounting screw: M5 screws

Color: Black Weight: Approx. 5 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, DF0, DSK (Note1), DX1 (Note2)		
Analog output: 16 points		AAV542/K4A00 (*1) AAV544/K4A00 (*1) VM4 (*3)		1 to 16	DA0, DH0, DQ0, DF0, 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, Supply side piping: Rc3/8 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	+	_	-
DM1			110t Comicotcu		Connected	Connected		utput 2	-
DT5		+ RJC -		Not Not		+ -		-	
		RJC			Connected Connect	Connected	For Output 2		-
DR5				Not Connected	Not Connected	+	-		
		Wiring resistance of A and B should be equal				For Output 2		-	
DRU	DRU		RTD		Ŷ		+	_	
							For O	utput 2	
DS1	DS1		100% CENTER 0%		Not Not Connected	+	_		
		Wiring resistance of A and C should be equal		Johnsoieu		For Output 2			
	2-wire type (Voltage contact)	+	Not Connected	-			Not Co	nnected	
DP1	Internal power supply 2-wire type	Signal	Power supply	Not Connected	Not	Not	+	_	
DP3				1101 00111100100	Connected	Connected		utput 2	-
	Internal power supply 3-wire type	+	Power supply	-			Not Co	nnected	-
DH1 [DH2, DH5	+	Not Connected	_	Not	Not	+	-	
					Connected	Connected		utput 2	-
DA1. [DA2, DA5	Available for the combination with BARD O + O In case power supply		l l		+	-		
					Not Connected	For O	utput 2	-	
DA7		transmitter is not necessary		Connected	Connected	Not Co	nnected		
	DH0, DA0, DQ0		Not Connected	-		Not Connected		nnected	
DX1		+	Not Connected	-		Not Connected	Not Co	nnected	
DG1	DG1		Not Connected	Not Connected	V _{Q_u}	v 9 [±] V L	+	_	
				N		For O	utput 2		
DB1		Not Connected	Not Connected	Not Connected	Aº k	<u>l</u> 9±	+	-	-
551		Not connected it	Not connected		KŤL		For O	utput 2	
DD1		Not Connected	Not Connected	Not Connected	Vo	G°±	+	_	
						<u>'</u>	For O	utput 2	
DF1		Not Connected	Not Connected	Not Connected	+ – For Output 2		Not Co	nnected	IN∯
DF0		Not Connected	Not Connected	Not Connected	+ For output signal check		Not Co	nnected	© √ OUT
DSK		+ Not Connected			NO/NC	COM	NO/NC	COM	
			INOL COINECTED		Output 1		Outp	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". Note: When a number of DF0s are stored to the same nest, use two connecting holes for air supply to the nest. (The maximum air supply of DF0 is 60NL/min., so as a criterion, this refers to the case of storing 9 units or more to the same nest.)

System side connecting cable

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

CN1/CN2

40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 16 15 14 13 12 11 10 09 08 07 06 05 04 03

CN1/CN2 connector pin assignment

CN1/CN2 Pin No.	Slot No.		CN1/CN2 Pin No.	Slot No.	
40 39	1	+	20 19	11	+ -
38 37	2	+	18 17	12	+
36 35	3	+	16 15	13	+
34 33	4	+	14 13	14	+
32 31	5	+	12 11	15	+
30 29	6	+	10 09	16	+
28 27	7	+	08 07		
26 25	8	+	06 05		
24 23 22	9	+	04 03		
22 21	10	+	02 01		

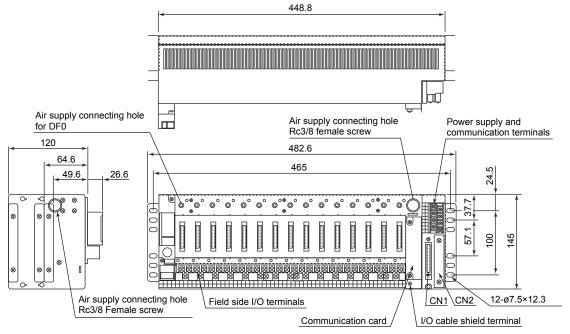
■ Assignment of Power Supply and Communication Terminals

	(1)
$ \widehat{4} $	
	$ \widehat{2} $
$ _{\widehat{(5)}} $	
	$ \mathfrak{A} $

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

■ 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.