

Control Station and Control Panel: Control Unit, DCU series

Flameproof and Dust protection by enclosure

Zone 1 & 2 – 21 & 22

Application

DCU control units are used for local or remote control of machines. They can be equipped with indicating lamps, push buttons, switches, ammeters, or voltmeters. They are suitable for use in hazardous areas classified as Zone 1, Zone 2, Zone 21, and Zone 22.

Specification

Body and cover : Marine grade copper-free aluminium alloy with polyester powder coated, RAL 7032 (grey)
(optional offshore painting- acrylic polyurethane coating)

Sealing (O-ring) : Silicone

Bolts, Hinge : Stainless steel, SS 304
(optional SS 316)

Technical Data

Hazardous Area	Gas	Dust
Zones	1 & 2	21 & 22
Equipment Group/Category	Ex II 2G	Ex II 2D
Symbol of Protection	Ex db IIB T6 Gb	Ex tb IIIB T85°C Db
Certificate	Presafe 16 ATEX 8036X IECEX PRE 16.0025X	
Conformity to Standards	EN IEC 60079-0, EN 60079-1, EN IEC 60079-31 IEC 60079-0, IEC 60079-1, IEC 60079-31	
Ambient Temperature	-20°C to +55°C	
Index of Protection	IP66	
Entry Threads	1/2" to 1" NPT or M20x1.5 to M32x1.5	
Mounting	Wall type	
Rated Voltage	Max. 400 V AC, 50/60 Hz	

DCU-11-TN1



DCU-1C116-TN1



DCU-22-TN2



DCU-2C125-TN2



DCU-33-TN2



DCU-44-TN2



DCU-5C232-CN2



DCU-68-TN2



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Catalogue Number Logic

Control Unit with Panel Mounted Operating Devices

DCU -

Series	Enclosure size	Number of unit	Entry threads
1	Size 1	5	Size 5
2	Size 2	6	Size 6
3	Size 3	7	Size 7
4	Size 4	8	Size 8



Ordering Requirements

1 unit (size 1)

1x Panel mounted operating devices (selection)	Entry threads	Dead-end/ Top	Dead-end/ Bottom	Through-feed
PL Pilot light, DPL series PB Push button, DPB series EM Mushroom-head push button, DMPB series SL Selector switch, DSL series KS Key selector switch, DSLK series Cat. No.	1/2" NPT	DCU-11-TN1	DCU-11-BN1	DCU-11-CN1
	3/4" NPT	DCU-11-TN2	DCU-11-BN2	DCU-11-CN2
	M20x1.5	DCU-11-TM1	DCU-11-BM1	DCU-11-CM1
	M25x1.5	DCU-11-TM2	DCU-11-BM2	DCU-11-CM2
Empty weight : 2.15 kg				

2 units (size 2)

2x Panel mounted operating devices (selection)	Entry threads	Dead-end/ Top	Dead-end/ Bottom	Through-feed
PL Pilot light, DPL series PB Push button, DPB series EM Mushroom-head push button, DMPB series SL Selector switch, DSL series KS Key selector switch, DSLK series Cat. No.	1/2" NPT	DCU-22-TN1	DCU-22-BN1	DCU-22-CN1
	3/4" NPT	DCU-22-TN2	DCU-22-BN2	DCU-22-CN2
	M20x1.5	DCU-22-TM1	DCU-22-BM1	DCU-22-CM1
	M25x1.5	DCU-22-TM2	DCU-22-BM2	DCU-22-CM2
Empty weight : 2.30 kg				

3 units (size 3)

3x Panel mounted operating devices (selection)	Entry threads	Dead-end/ Top	Dead-end/ Bottom	Through-feed
PL Pilot light, DPL series PB Push button, DPB series EM Mushroom-head push button, DMPB series SL Selector switch, DSL series KS Key selector switch, DSLK series Cat. No.	1/2" NPT	DCU-33-TN1	DCU-33-BN1	DCU-33-CN1
	3/4" NPT	DCU-33-TN2	DCU-33-BN2	DCU-33-CN2
	M20x1.5	DCU-33-TM1	DCU-33-BM1	DCU-33-CM1
	M25x1.5	DCU-33-TM2	DCU-33-BM2	DCU-33-CM2
Empty weight : 3.05 kg				

4 units (size 4)

4x Panel mounted operating devices (selection)	Entry threads	Dead-end/ Top	Dead-end/ Bottom	Through-feed
PL Pilot light, DPL series PB Push button, DPB series EM Mushroom-head push button, DMPB series SL Selector switch, DSL series KS Key selector switch, DSLK series Cat. No.	(2x) 1/2" NPT	DCU-44-TN1	DCU-44-BN1	DCU-44-CN1
	(2x) 3/4" NPT	DCU-44-TN2	DCU-44-BN2	DCU-44-CN2
	(2x) M20x1.5	DCU-44-TM1	DCU-44-BM1	DCU-44-CM1
	(2x) M25x1.5	DCU-44-TM2	DCU-44-BM2	DCU-44-CM2
Empty weight : 3.50 kg				

6 units (size 5)

6x Panel mounted operating devices (selection)	Entry threads	Dead-end/ Top	Dead-end/ Bottom	Through-feed
PL Pilot light, DPL series PB Push button, DPB series EM Mushroom-head push button, DMPB series SL Selector switch, DSL series KS Key selector switch, DSLK series Cat. No.	(2x) 1/2" NPT	DCU-56-TN1	DCU-56-BN1	DCU-56-CN1
	(2x) 3/4" NPT	DCU-56-TN2	DCU-56-BN2	DCU-56-CN2
	(2x) M20x1.5	DCU-56-TM1	DCU-56-BM1	DCU-56-CM1
	(2x) M25x1.5	DCU-56-TM2	DCU-56-BM2	DCU-56-CM2
Empty weight : 4.20 kg				

8 units (size 6)

8x Panel mounted operating devices (selection)	Entry threads	Dead-end/ Top	Dead-end/ Bottom	Through-feed
PL Pilot light, DPL series PB Push button, DPB series EM Mushroom-head push button, DMPB series SL Selector switch, DSL series KS Key selector switch, DSLK series Cat. No.	(2x) 3/4" NPT	DCU-68-TN2	DCU-68-BN2	DCU-68-CN2
	(1x) 1" NPT	DCU-68-TN3	DCU-68-BN3	DCU-68-CN3
	(2x) M25x1.5	DCU-68-TM2	DCU-68-BM2	DCU-68-CM2
	(1x) M32x1.5	DCU-68-TM3	DCU-68-BM3	DCU-68-CM3
Empty weight : 8.25 kg				

DPL series



DPB series



DMPB series



DSL series



DSLK series



If require control unit with terminal blocks and wiring, please contact us.

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Zone 1 & 2 – 21 & 22



Catalogue Number Logic

Control Unit with Cam Operated Switch

DCU	-	■	C	■	■ ■	-	■ ■ ■
Series	Enclosure size	Cam operated switch	Number of unit	Switch ampere	Entry threads		
1	Size 1		1	16 A	Position		
2	Size 2		2	25 A			
4	Size 4			32 A	Thread size		
5	Size 5						
					T	Dead-end/ Top	N1 1/2" NPT M1 M20x1.5
					B	Dead-end/ Bottom	N2 3/4" NPT M2 M25x1.5
					C	Through-feed	



Ordering Requirements

1 unit (size 1)

	CM1 Cam Operated Switch, 16 A (AC1) 2-step Double pole, 220 V AC, 50 Hz, Cat. No. DCM-A216		
Cat. No.			
Entry threads	Dead-end/ Top	Dead-end/ Bottom	Through-feed
1/2" NPT	DCU-1C116-TN1	DCU-1C116-BN1	DCU-1C116-CN1
3/4" NPT	DCU-1C116-TN2	DCU-1C116-BN2	DCU-1C116-CN2
M20x1.5	DCU-1C116-TM1	DCU-1C116-BM1	DCU-1C116-CM1
M25x1.5	DCU-1C116-TM2	DCU-1C116-BM2	DCU-1C116-CM2
Empty weight : 2.15 kg			

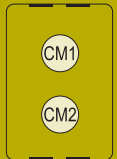
1 unit (size 2)

	 Cam Operated Switch, 25 A (AC1) 2-step Double pole, 220 V AC, 50 Hz, Cat. No. DCM-A225		
Cat. No.			
Entry threads	Dead-end/ Top	Dead-end/ Bottom	Through-feed
1/2" NPT	DCU-2C125-TN1	DCU-2C125-BN1	DCU-2C125-CN1
3/4" NPT	DCU-2C125-TN2	DCU-2C125-BN2	DCU-2C125-CN2
M20x1.5	DCU-2C125-TM1	DCU-2C125-BM1	DCU-2C125-CM1
M25x1.5	DCU-2C125-TM2	DCU-2C125-BM2	DCU-2C125-CM2
Empty weight : 2.30 kg			

1 unit (size 4)

	CM1 Cam Operated Switch, 32 A (AC1) 2-step Double pole, 220 V AC, 50 Hz, Cat. No. DCM-A232	Cat. No.		
Entry threads	Dead-end/ Top	Dead-end/ Bottom	Through-feed	
(2x) 1/2" NPT	DCU-4C132-TN1	DCU-4C132-BN1	DCU-4C132-CN1	
(2x) 3/4" NPT	DCU-4C132-TN2	DCU-4C132-BN2	DCU-4C132-CN2	
(2x) M20x1.5	DCU-4C132-TM1	DCU-4C132-BM1	DCU-4C132-CM1	
(2x) M25x1.5	DCU-4C132-TM2	DCU-4C132-BM2	DCU-4C132-CM2	
Empty weight : 3.50 kg				

2 units (size 5)

	CM1 Cam Operated Switch, 32 A (AC1) 2-step Double pole/ 220V.ac 50Hz., Cat. No. DCM-A232 CM2 Cam Operated Switch, 32 A (AC1) Double pole, 220 V AC, 50 Hz, Cat. No. DCM-A232	Cat. No.		
Entry threads	Dead-end/ Top	Dead-end/ Bottom	Through-feed	
(2x) 1/2" NPT	DCU-5C232-TN1	DCU-5C232-BN1	DCU-5C232-CN1	
(2x) 3/4" NPT	DCU-5C232-TN2	DCU-5C232-BN2	DCU-5C232-CN2	
(2x) M20x1.5	DCU-5C232-TM1	DCU-5C232-BM1	DCU-5C232-CM1	
(2x) M25x1.5	DCU-5C232-TM2	DCU-5C232-BM2	DCU-5C232-CM2	
Empty weight : 4.20 kg				

Catalogue Number Logic

Control Unit with Inspection Window & Panel Mounted Operating Devices

DCU	-	■	■	G	A	-	■ ■ ■
Series	Enclosure size	Number of unit	Inspection window	Ammeter size	Ammeter range	Entry threads	
4	Size 4	- none	Ø50 mm (LGCR-50-M85)	Size 48x48	30 0-30 /1 A	Position	
5	Size 5	2 2 units			50 0-50 /1 A		
6	Size 6	4 4 units			100 0-100 /1 A	T	Dead-end/ Top N1 1/2" NPT M1 M20x1.5
					800 0-800 /1 A	B	Dead-end/ Bottom N2 3/4" NPT M2 M25x1.5
						C	Through-feed N3 1" NPT M3 M32x1.5



Ordering Requirements

1 window (size 4)

		1x Inspection Window, Ø50mm (LGCR-50-M85)		
		Ammeter size 48x48, specify ammeter range.		
Cat. No.				
Entry threads	Dead-end/ Top	Dead-end/ Bottom	Through-feed	
1/2" NPT	DCU-4GA□-TN1	DCU-4GA□-BN1	DCU-4GA□-CN1	
3/4" NPT	DCU-4GA□-TN2	DCU-4GA□-BN2	DCU-4GA□-CN2	
M20x1.5	DCU-4GA□-TM1	DCU-4GA□-BM1	DCU-4GA□-CM1	
M25x1.5	DCU-4GA□-TM2	DCU-4GA□-BM2	DCU-4GA□-CM2	
Empty weight : 3.50 kg				

□ - Ammeter range, see catalogue number logic or specify

If require control unit with terminal blocks and wiring, please contact us.

Control Station and Control Panel: Control Unit, DCU series

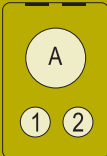
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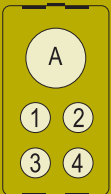
Ordering Requirements

Control Unit with Inspection Window & Panel Mounted Operating Devices

1 window, 2-units (size 5)

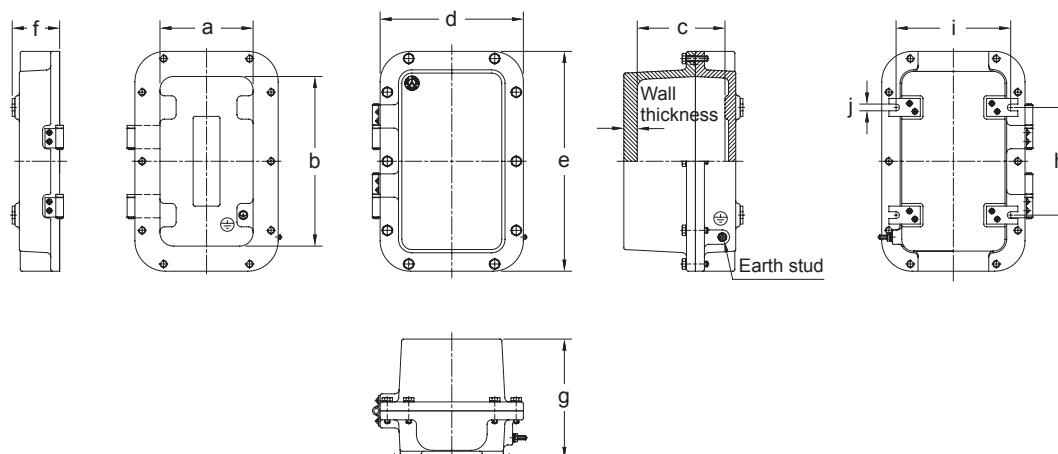
	1x Inspection window, Ø50 mm (LGCR-50-M85)			
	 A	Ammeter size 48x48, specify ammeter range.		
	2x Panel mounted operating devices (selection)			
	 PL	Pilot light, DPL series		
	 PB	Push button, DPB series		
	 EM	Mushroom-head push button, DMPB series		
	 SL	Seletor switch, DSL series		
 KS	Key seletor switch, DSLK series			
Cat. No.				
Entry threads	Dead-end/ Top	Dead-end/ Bottom	Through-feed	
(2x) 1/2" NPT	DCU-52GA□-TN1	DCU-52GA□-BN1	DCU-52GA□-CN1	
(2x) 3/4" NPT	DCU-52GA□-TN2	DCU-52GA□-BN2	DCU-52GA□-CN2	
(2x) M20x1.5	DCU-52GA□-TM1	DCU-52GA□-BM1	DCU-52GA□-CM1	
(2x) M25x1.5	DCU-52GA□-TM2	DCU-52GA□-BM2	DCU-52GA□-CM2	
Empty weight : 4.20 kg				

1 window, 4-units (size 6)

1x Inspection window, Ø50 mm (LGCR-50-M85)				
	(A)	Ammeter size 48x48, specify ammeter range.		
	4x Panel mounted operating devices (selection)			
	(PL)	Pilot light, DPL series		
	(PB)	Push button, DPB series		
	(EM)	Mushroom-head push button, DMPB series		
	(SL)	Seletor switch, DSL series		
	(KS)	Key seletor switch, DSLK series		
Cat. No.				
Entry threads	Dead-end/ Top	Dead-end/ Bottom	Through-feed	
(2x) 3/4" NPT	DCU-64GA□-TN2	DCU-64GA□-BN2	DCU-64GA□-CN2	
(1x) 1" NPT	DCU-64GA□-TN3	DCU-64GA□-BN3	DCU-64GA□-CN3	
(2x) M25x1.5	DCU-64GA□-TM2	DCU-64GA□-BM2	DCU-64GA□-CM2	
(1x) M32x1.5	DCU-64GA□-TM3	DCU-64GA□-BM3	DCU-64GA□-CM3	
Empty weight : 8.25 kg				

□ - Ammeter range, see catalogue number or specify

Dimensions



Empty Enclosure		Dimensions in mm										Wall thickness	Volume (cm³)	Approx. weight (kg)
		Inside			Outside				Mounting					
Size	Cat. No.	a	b	c	d	e	f	g	h	i	j			
Size 1	DCU-1 □	60	82	88	116	138	53	123	55	92	7.5	15	430	2.15
Size 2	DCU-2 □	60	134	88	116	190	53	123	65	92	7.5	15	700	2.30
Size 3	DCU-3 □	60	189	98	116	245	53	133	120	92	7.5	15	1,110	3.05
Size 4	DCU-4 □	104	134	98	160	190	53	133	65	128	7.5	15	1,360	3.50
Size 5	DCU-5 □	104	189	98	160	245	53	133	120	128	7.5	15	1,920	4.20
Size 6	DCU-6 □	120	273	116	180	333	68	153	170	154	7.5	15	3,800	8.25

□ - see ordering requirements

Customized Control Unit Specification Sheet, DCU series

Flameproof and Dust protection by enclosure

Zone 1 & 2 – 21 & 22



Project: _____ Date: _____

Customer: _____ Owner: _____

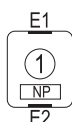
Contact person: _____

Tel: _____ Fax: _____ E-mail: _____

Quantity (Set)	
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Control Station Style

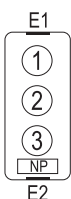
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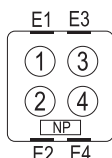
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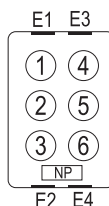
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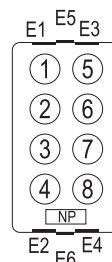
☐ Size 4



☐ Size 5



☐ Size 6



Entries

Top

E1	
E3	
E5	

Bottom

E2	
E4	
E6	

Nameplate (NP)

NP Letter	
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Panel Mounted Operating Devices Specifications

Unit	Panel Mounted Operating Devices	Nameplate
①	☐ Pilot Light (Voltage/ Colour) _____ ☐ Push Button (Contact/ Colour) _____ ☐ Mushroom-head Push Button (Contact/ Colour) _____ ☐ Selector Switch (Contact/ Position) _____ ☐ Key Selector Switch (Contact/ Position) _____	☐ No nameplate ☐ ON ☐ OFF ☐ RUN ☐ OVERLOAD ☐ TRIP ☐ RESET ☐ START ☐ STOP ☐ OFF-ON ☐ MAN-OFF-AUTO ☐ MAN-AUTO ☐ EMER. STOP ☐ Others _____
②	☐ Pilot Light (Voltage/ Colour) _____ ☐ Push Button (Contact/ Colour) _____ ☐ Mushroom-head Push Button (Contact/ Colour) _____ ☐ Selector Switch (Contact/ Position) _____ ☐ Key Selector Switch (Contact/ Position) _____	☐ No nameplate ☐ ON ☐ OFF ☐ RUN ☐ OVERLOAD ☐ TRIP ☐ RESET ☐ START ☐ STOP ☐ OFF-ON ☐ MAN-OFF-AUTO ☐ MAN-AUTO ☐ EMER. STOP ☐ Others _____
③	☐ Pilot Light (Voltage/ Colour) _____ ☐ Push Button (Contact/ Colour) _____ ☐ Mushroom-head Push Button (Contact/ Colour) _____ ☐ Selector Switch (Contact/ Position) _____ ☐ Key Selector Switch (Contact/ Position) _____	☐ No nameplate ☐ ON ☐ OFF ☐ RUN ☐ OVERLOAD ☐ TRIP ☐ RESET ☐ START ☐ STOP ☐ OFF-ON ☐ MAN-OFF-AUTO ☐ MAN-AUTO ☐ EMER. STOP ☐ Others _____
④	☐ Pilot Light (Voltage/ Colour) _____ ☐ Push Button (Contact/ Colour) _____ ☐ Mushroom-head Push Button (Contact/ Colour) _____ ☐ Selector Switch (Contact/ Position) _____ ☐ Key Selector Switch (Contact/ Position) _____	☐ No nameplate ☐ ON ☐ OFF ☐ RUN ☐ OVERLOAD ☐ TRIP ☐ RESET ☐ START ☐ STOP ☐ OFF-ON ☐ MAN-OFF-AUTO ☐ MAN-AUTO ☐ EMER. STOP ☐ Others _____
⑤	☐ Pilot Light (Voltage/ Colour) _____ ☐ Push Button (Contact/ Colour) _____ ☐ Mushroom-head Push Button (Contact/ Colour) _____ ☐ Selector Switch (Contact/ Position) _____ ☐ Key Selector Switch (Contact/ Position) _____	☐ No nameplate ☐ ON ☐ OFF ☐ RUN ☐ OVERLOAD ☐ TRIP ☐ RESET ☐ START ☐ STOP ☐ OFF-ON ☐ MAN-OFF-AUTO ☐ MAN-AUTO ☐ EMER. STOP ☐ Others _____
⑥	☐ Pilot Light (Voltage/ Colour) _____ ☐ Push Button (Contact/ Colour) _____ ☐ Mushroom-head Push Button (Contact/ Colour) _____ ☐ Selector Switch (Contact/ Position) _____ ☐ Key Selector Switch (Contact/ Position) _____	☐ No nameplate ☐ ON ☐ OFF ☐ RUN ☐ OVERLOAD ☐ TRIP ☐ RESET ☐ START ☐ STOP ☐ OFF-ON ☐ MAN-OFF-AUTO ☐ MAN-AUTO ☐ EMER. STOP ☐ Others _____
⑦	☐ Pilot Light (Voltage/ Colour) _____ ☐ Push Button (Contact/ Colour) _____ ☐ Mushroom-head Push Button (Contact/ Colour) _____ ☐ Selector Switch (Contact/ Position) _____ ☐ Key Selector Switch (Contact/ Position) _____	☐ No nameplate ☐ ON ☐ OFF ☐ RUN ☐ OVERLOAD ☐ TRIP ☐ RESET ☐ START ☐ STOP ☐ OFF-ON ☐ MAN-OFF-AUTO ☐ MAN-AUTO ☐ EMER. STOP ☐ Others _____
⑧	☐ Pilot Light (Voltage/ Colour) _____ ☐ Push Button (Contact/ Colour) _____ ☐ Mushroom-head Push Button (Contact/ Colour) _____ ☐ Selector Switch (Contact/ Position) _____ ☐ Key Selector Switch (Contact/ Position) _____	☐ No nameplate ☐ ON ☐ OFF ☐ RUN ☐ OVERLOAD ☐ TRIP ☐ RESET ☐ START ☐ STOP ☐ OFF-ON ☐ MAN-OFF-AUTO ☐ MAN-AUTO ☐ EMER. STOP ☐ Others _____

Nameplate Specifications Material: Acrylic multipolymer (12x40 mm), Legend colour: Black letter, white background