Control Station and Control Panel: Control Unit, DCU series

ALLOY
ALLOY ELECTRIC PRODUCTS ®
A QUALITY PRODUCT

Flameproof
Zone 1 & 2 – 21 & 22

Application

The DCU control units are used for local or remote control of machine. They can be built-in with indicating lamps, push buttons, switches, ammeters, or voltmeters. They are suitable for Zone 1, 2 and Zone 21, 22 hazardous areas.

Specification

Body and cover	:	Marine grade copper-free aluminium alloy with polyester powder coated, RAL 7032 (grey)
Sealing (O-ring)	:	Silicone -40 °C to +175 °C
Lid screws	:	Stainless steel
Hinge	:	Stainless steel

Technical Data

Hazardous Area	Gas	Dust
Zones	**1 & 2**	**21 & 22**
Conforming to ATEX	〈Ex〉 **II 2G**	〈Ex〉 **II 2D**
Symbol of Protection ATEX	**Ex db IIB Gb**	**Ex tb IIIB Db**
Symbol of Protection IEC		
T Rating	T6 (Ta 40 °C/ 55 °C)	NA
Surface Temp.	NA	T85°C (Ta 40 °C/ 55 °C)
ATEX Certificate	Presafe 16 ATEX 8036	
IECEx Certificate	IECEx PRE 16.0025X	
Standard	ATEX Directive 2014/34/EU, std. EN 60079-0:2012,	
	EN 60079-1:2007, EN 60079-31:2014	
	IECEx Scheme, std. IEC 60079-0:2011, IEC 60079-1:2014,	
	IEC 60079-31:2013	
Ambient Temperature	-20 °C to +55 °C	
Index of Protection	IP66	

Entries	Ø3/4" to Ø1" NPT (M20x1.5 to M32x1.5)
Mounting	Wall type

Catalogue Number Logic

Control Unit
with Panel Mounted Operating Devices

DCU - X X

Series	Enclosure size:	Number of Unit:
	1 = Size 1	1 = 1-unit
	2 = Size 2	2 = 2-units
	3 = Size 3	3 = 3-units
	4 = Size 4	4 = 4-units
	5 = Size 5	5 = 5-units
	6 = Size 6	6 = 6-units
		7 = 7-units
		8 = 8-units

Control Unit
with Cam Operated Switch

DCU - X C X XX

Series	Enclosure size:	Cam Operated Switch	Number of Switch:	Switch Ampere (AC1):
	1 = Size 1		1 = 1-unit	16 = 16A.
	2 = Size 2		2 = 2-units	25 = 25A.
	4 = Size 4		4 = 4-units	32 = 32A.
	5 = Size 5		5 = 5-units	

Control Unit with Inspection Window and Panel Mounted Operating Devices

DCU - X G A ☐ - X

Series	Enclosure size:	Inspection Window (round shape) Model LGCR-50-M85	Ammeter size 48x48mm.	Ampere Range of Ammeter:	Number of Unit: (except size 1)
	4 = Size 4			30 = 0-30A.	2 = 2-units
	5 = Size 5			50 = 0-50A.	4 = 4-units
	6 = Size 6			100 = 0-100A.	
				800 = 0-800A.	

Flameproof
Zone 1 & 2 – 21 & 22

Catalogue Number

Control Unit with Panel Mounted Operating Devices

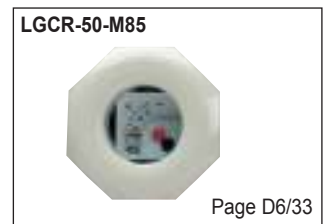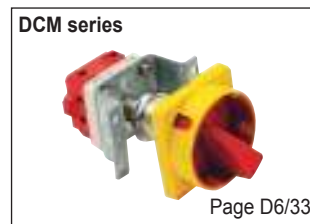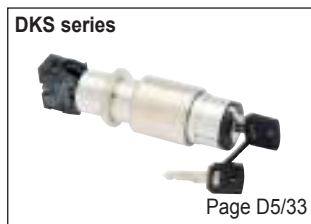| Enclosure	Panel Mounted Operating Devices (Unit Module)		Cat. No. (see cat. no. logic)	Max. Entries Thread (Top or Bottom)
	Number of Unit Module	Equipment Module Selection		
Size 1	1-unit	Push Button (DPB series), Pilot Light (DPL series), Mushroom-Head Push Button (DMPB series), Selector Switch (DSL series), Key Selector Switch (DKS series)	DCU-11	1- Ø3/4" NPT or M25x1.5
Size 2	2-units		DCU-22	
Size 3	3-units		DCU-33	
Size 4	4-units		DCU-44	2- Ø3/4" NPT or M25x1.5
Size 5	6-units		DCU-56	
Size 6	8-units		DCU-68	1- 1" NPT or M32x1.5

Control Unit with Cam Operated Switch

Enclosure	Cam Operated Switch (DCM series)		Cat. No. (see cat. no. logic)	Max. Entries Thread (Top or Bottom)
	Number of Unit Module	Ampere		
Size 1	1-unit	16A.	DCU-1C116	1- Ø3/4" NPT or M25x1.5
Size 2	1-unit	25A.	DCU-2C125	
Size 4	1-unit	32A.	DCU-4C132	2- Ø3/4" NPT or M25x1.5
Size 5	2-units	32A.	DCU-5C232	

Control Unit with Inspection Window and Panel Mounted Operating Devices

Enclosure	Inspection Window Ø 50mm. (LGCR-50-M85)	Panel Mounted Operating Devices (Unit Module)		Cat. No. (see cat. no. logic)	Max. Entries Thread (Top or Bottom)
		Number of Unit Module	Equipment Module Selection		
Size 4	Ammeter size 48x48mm. for direct or CT type	4-units	Push Button (DPB series), Pilot Light (DPL series), Mushroom-Head Push Button (DMPB series), Selector Switch (DSL series), Key Selector Switch (DKS series)	DCU-4GA □	2- Ø3/4" NPT or M25x1.5
Size 5		6-units		DCU-5GA □-2	
Size 6		8-units		DCU-6GA □-4	1- 1" NPT or M32x1.5

□ - Ammeter range (see catalogue number logic)

DPL series

Page D3/33

DPB series

Page D3/33

DPL series

Page D4/33

D

DSL series

Page D5/33

DKS series

Page D5/33

DCM series

Page D6/33

LGCR-50-M85

Page D6/33

DCU-1C116

DCU-2C125

DCU-5C232

DCU-6GA30-4

Control Station and Control Panel: Control Unit, DCU series

Flameproof
Zone 1 & 2 – 21 & 22

Dimension

Wall thickness
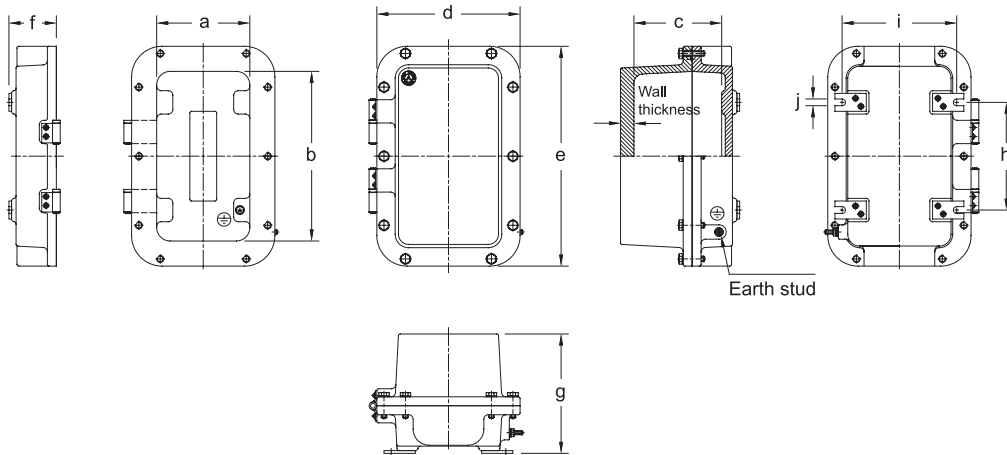
Earth stud

Empty Enclosure		Dimension in mm.										Volume (dm³)	Empty Weight (kgs.)
Size	Cat. No.	Inside			Outside				Mounting			Wall Thickness		
		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	0.43	2.15
Size 2	**DCU-2 □**	60	134	88	116	190	53	123	65	92	7.5	15	0.70	2.30
Size 3	**DCU-3 □**	60	189	98	116	245	53	133	120	92	7.5	15	1.11	3.05
Size 4	**DCU-4 □**	104	134	98	160	190	53	133	65	128	7.5	15	1.36	3.50
Size 5	**DCU-5 □**	104	189	98	160	245	53	133	120	128	7.5	15	1.92	4.20
Size 6	**DCU-6 □**	120	273	116	180	333	68	153	170	154	7.5	15	3.80	8.25

□ - see catalogue number logic