

ABCS GRP Control Stations



IP66

Application

Hazardous and Industrial areas

Protection Degree

IP66

Certification

ATEX, IECEx & InMetro

Ex e II T4 (Ammeter only) or Ex ed IIC T4

Max ambient range: -20°C to +55°C

Material

Carbon Loaded Glass Reinforced Polyester (Black)



Configuration options (see typical layout drawings overleaf)

Part Number	Dimensions HxWxD (mm)	Max. Power Dissipation (W)	Maximum Populations			
			Operators Only	W/ Terminals	W/ Ammeter	W/ Ammeter & Terminals
ABCS6	122x120x90	4.5	1 x Op	N/A	N/A	N/A
ABCS7	220x120x90	5	3 x Op	2 x Op	1 x Op, 1 x Am	1 x Am
ABCS8	160x160x90	5	4 x Op	2 x Op	1 x Am	N/A
ABCS9	260x160x90	5.75	5 x Op	5 x Op	4 x Op, 1 x Am	2 x Op, 1 x Am
ABCS10	360x160x90	6.5	6 x Op	5 x Op	4 x Op, 2 x Am	2 x Op, 2 x Am
ABCS11	560x160x90	9	9 x Op	8 x Op	7 x Op, 3 x Am	6 x Op, 3 x Am
ABCS12	255x250x120	7.5	7 x Op	6 x Op	6 x Op, 2 x Am	4 x Op, 2 x Am
ABCS13	400x250x120	10	10 x Op	9 x Op	8 x Op, 4 x Am	4 x Op, 2 x Am
ABCS14	600x250x120	15	15 x Op	14 x Op	12 x Op, 6 x Am	9 x Op, 6 x Am
ABCS15	400x405x120	15.5	15 x Op	15 x Op	12 x Op, 6 x Am	10 x Op, 6 x Am

Op = Operator (Push Button, E-Stop, Indicator Lamp or Selector Switch) - Allow 1W power dissipation per operator

Am = Ammeter - Allow 0.5W power dissipation per ammeter

Available operator, ammeter and terminal types (see parts list overleaf)

Push Button	Momentary, 1NC/1NO, 2NC or 2NO contacts. Coloured/marked inserts as required
Emergency Stop	Push-Pull, 1NC/1NO, 2NC or 2NO contacts. Red/yellow mushroom head
Mushroom Head	Push-Pull, 1NC/1NO, 2NC or 2NO contacts. Colour: black. Optional key release
Key Release Push Button	1NC/1NO, 2NC or 2NO contacts. Colour: black
Indicator Lamp	Red/green/yellow/blue or white available
Illuminated Push Button	Red/green/yellow/blue or white available. Available with 1NC or 1NO contacts
Selector Switch	2 or 3 position. 2-pole contact configurations and label inserts to suit application Small switch handle (39mm dia) as standard. Large handle (60mm dia) also available
Ammeter	Direct measuring with x2 overload scale (max scale: 0-15A/30A) 1A or 5A current transformer with x2 or x5 overload scale (max scale: 0-600A/3000A)
Terminals	Direct termination as standard, 2.5/4mm ² Ex screw terminals fitted where requested



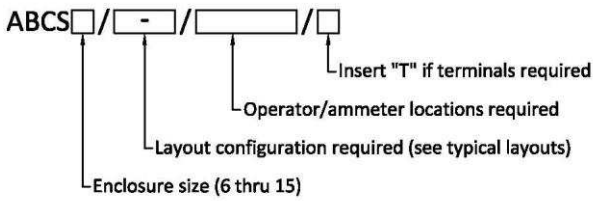
**THORNE &
DERRICK**
INTERNATIONAL

Thorne & Derrick
+44 (0) 191 410 4292
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Maximum cable entries

	Top face				Bottom face			
	M20	M25	M32	M40	M20	M25	M32	M40
ABCS6	2	1	1	N/A	2	1	1	N/A
ABCS7	1	1	N/A	N/A	1	1	N/A	N/A
ABCS8	2	2	1	N/A	2	2	1	N/A
ABCS9	2	2	1	N/A	2	2	1	N/A
ABCS10	2	2	1	N/A	2	2	1	N/A
ABCS11	2	2	1	N/A	2	2	1	N/A
ABCS12	10	6	3	3	10	6	3	3
ABCS13	8	4	2	2	8	4	2	2
ABCS14	8	4	2	2	8	4	2	2
ABCS15	18	14	6	5	18	14	6	5

Ordering information



Example Order Code:

ABCS9/[2-1]/P1P2A1/T

P1 = P1 70 04

P2 = P1 70 24

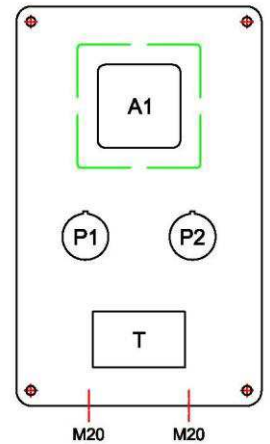
A1 = M7WA 5 / 1-2

T = 8 x AKZ 2.5 Ex

ENTRIES = 2 x M20 bottom side

ABCS9 control station (260x160x90mm), fitted with:

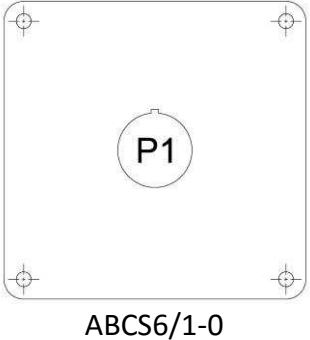
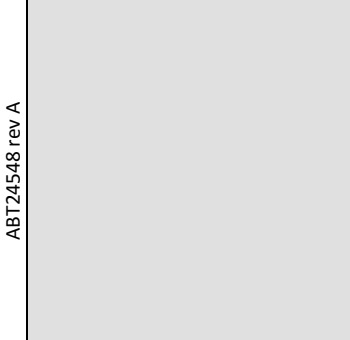

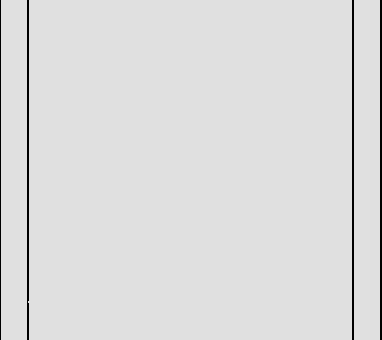
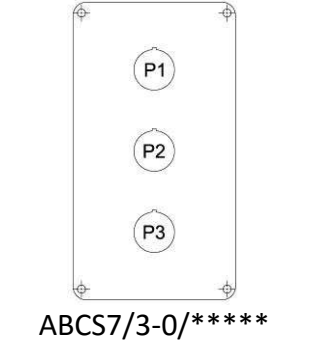
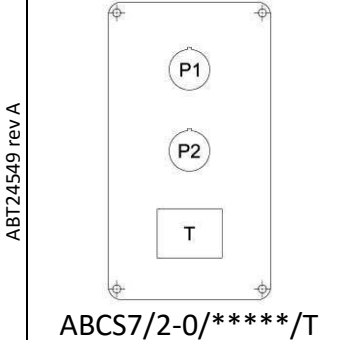
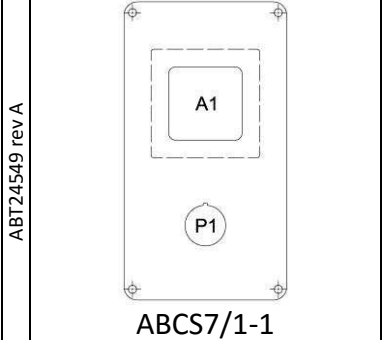
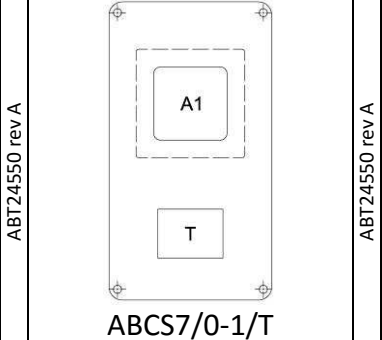
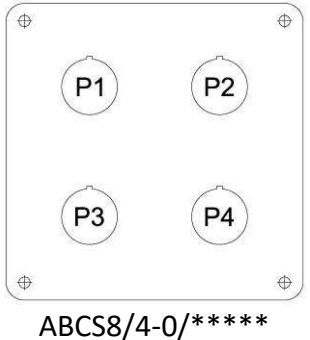
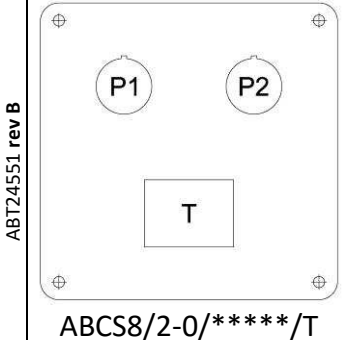
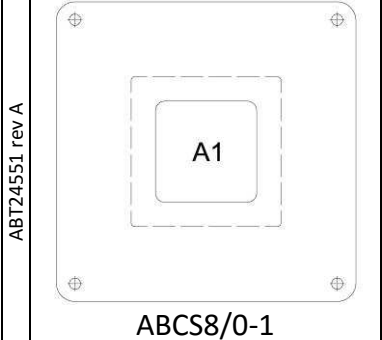
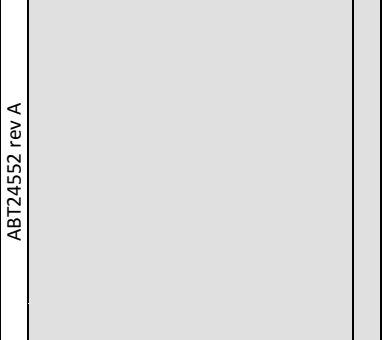
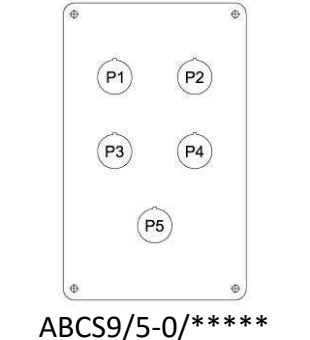
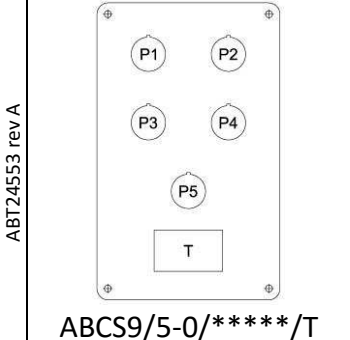
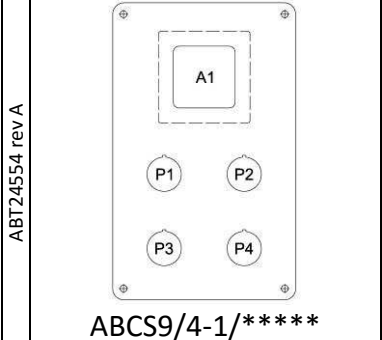
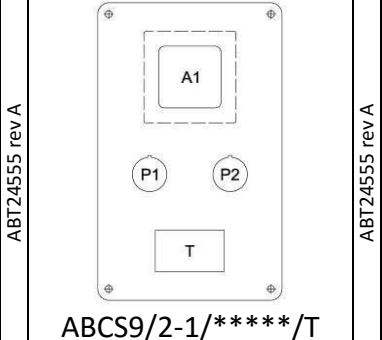
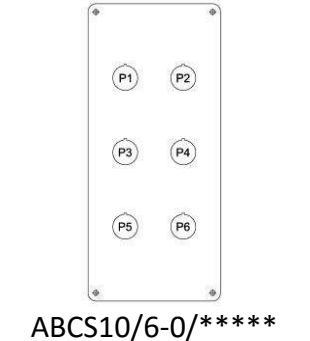
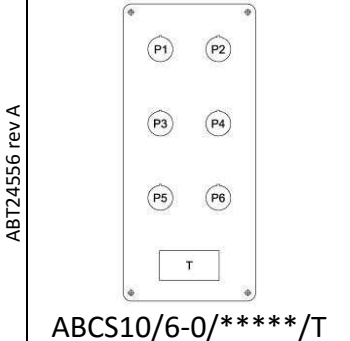
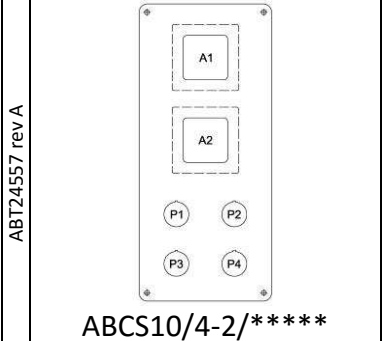
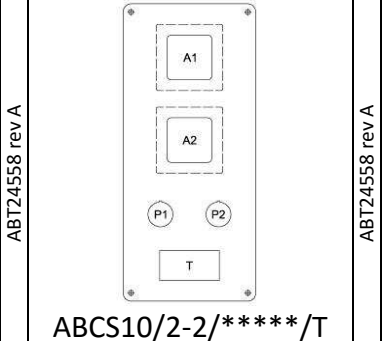
- 1 off Momentary pushbutton, 1NC/1NO contacts, green "START" label insert
- 1 off Momentary pushbutton, 1NC/1NO contacts, red "stop" label insert
- 1 off 1A ammeter for connection to CT, 0-5A measuring scale with x2 overload scale (10A)
- 8 off AKZ 2.5 Ex terminals mounted horizontally
- 2 off M20 entries in bottom side of enclosure

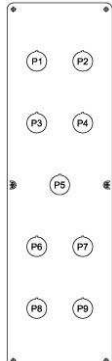
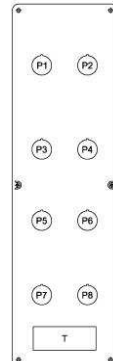
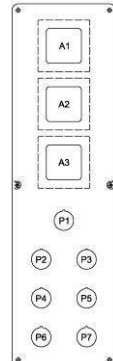
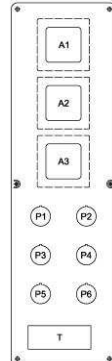
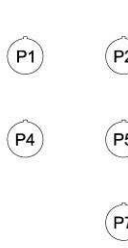
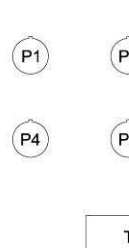
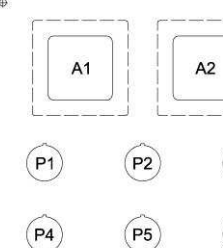
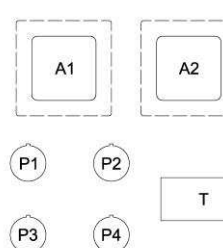
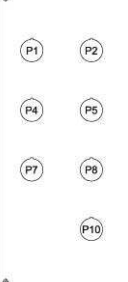
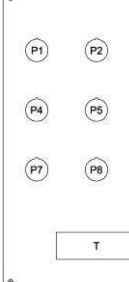
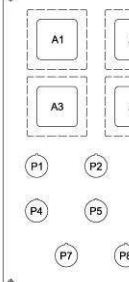
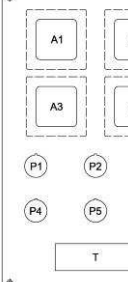
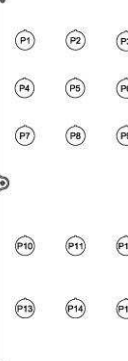
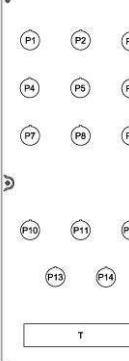
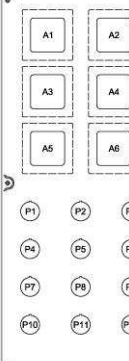
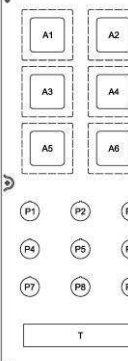
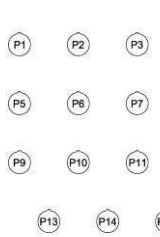
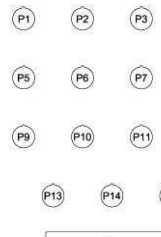
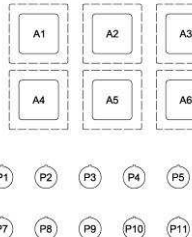
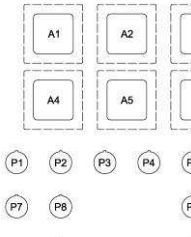


Electrical data

Push Button Emergency Stop Mushroom Head Key Release Push Button	Utilization category (per BS EN 60947-1)	AC12	AC15	DC13	DC13
	Rated voltage	250V	250V	110V	24V
	Rated current	16A	10A	0.5A	1A
Indicator Lamp	Maximum ambient temperature	+40°C	+55°C	+55°C	+55°C
Illuminated Push Button	Suitable for 24-240Vac / 24-36Vdc supply. Alternative supply option: 220-380Vac				
	Utilization category (per BS EN 60947-1)	AC15	DC13		
	Rated voltage	250V	24V		
	Rated current	6A	1A		
	Maximum ambient temperature	+55°C	+55°C		
Terminals	Lamp suitable for 24-240Vac / 24-36Vdc supply				
	Terminal type	AKZ 2.5	AKZ 4	SAK 2.5	SAK 4
	Maximum cable size	2.5mm ²	4mm ²	2.5mm ²	4mm ²
	Maximum voltage	176V	275V	550V	550V
	Maximum current	15A*	28A	15A*	28A

*limited as per hazardous area certificate

OPERATORS ONLY	W/ TERMINALS	W/ AMMETER	W/ AMMETER & TERMINALS
 <p>ABCS6/1-0</p>			
 <p>ABCS7/3-0/*****</p>	 <p>ABCS7/2-0/*****/T</p>	 <p>ABCS7/1-1</p>	 <p>ABCS7/0-1/T</p>
 <p>ABCS8/4-0/*****</p>	 <p>ABCS8/2-0/*****/T</p>	 <p>ABCS8/0-1</p>	
 <p>ABCS9/5-0/*****</p>	 <p>ABCS9/5-0/*****/T</p>	 <p>ABCS9/4-1/*****</p>	 <p>ABCS9/2-1/*****/T</p>
 <p>ABCS10/6-0/*****</p>	 <p>ABCS10/6-0/*****/T</p>	 <p>ABCS10/4-2/*****</p>	 <p>ABCS10/2-2/*****/T</p>

 <p>ABCS11/9-0/*****</p>	<p>ABT24559 rev A</p>  <p>ABCS11/8-0/*****/T</p>	<p>ABT24560 rev A</p>  <p>ABCS11/7-3/*****</p>	<p>ABT24561 rev A</p>  <p>ABCS11/6-3/*****/T</p>
 <p>ABCS12/7-0/*****</p>	<p>ABT24563 rev A</p>  <p>ABCS12/6-0/*****/T</p>	<p>ABT24563 rev A</p>  <p>ABCS12/6-2/*****</p>	<p>ABT24564 rev A</p>  <p>ABCS12/4-2/*****/T</p>
 <p>ABCS13/10-0/*****</p>	<p>ABT24566 rev A</p>  <p>ABCS13/9-0/*****/T</p>	<p>ABT24566 rev A</p>  <p>ABCS13/8-4/*****</p>	<p>ABT24567 rev A</p>  <p>ABCS13/6-4/*****/T</p>
 <p>ABCS14/15-0/*****</p>	<p>ABT24568 rev A</p>  <p>ABCS14/14-0/*****/T</p>	<p>ABT24569 rev A</p>  <p>ABCS14/12-6/*****</p>	<p>ABT24570 rev A</p>  <p>ABCS14/9-6/*****/T</p>
<p>ABT24571 rev A</p>  <p>ABCS15/15-0/*****</p>	<p>ABT24572 rev A</p>  <p>ABCS15/15-0/*****/T</p>	<p>ABT24573 rev A</p>  <p>ABCS15/12-6/*****</p>	<p>ABT24574 rev A</p>  <p>ABCS15/10-6/*****/T</p>

