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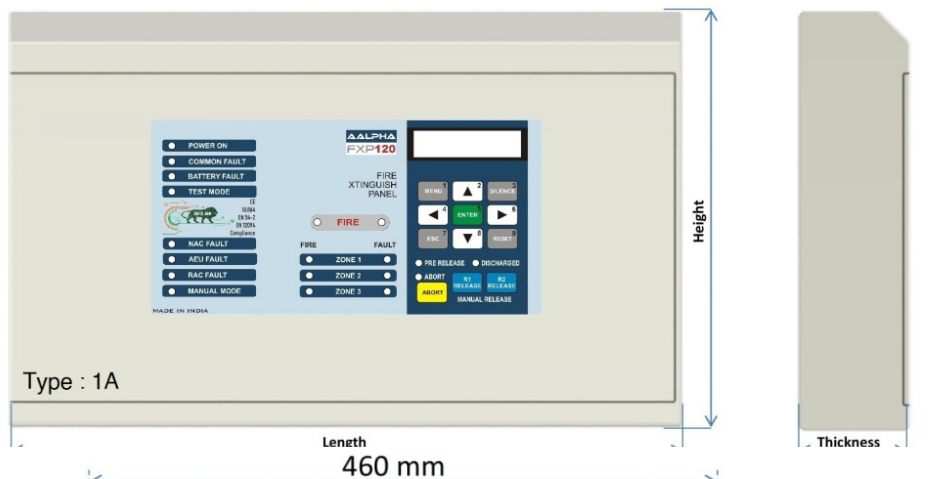
FIXED DSPA FIRE SUPPRESSION SYSTEM

PROJECT :	HAZARDS ROOM/SHELTER PROTECTION		
CUSTOMER :			
PO NO. / DT. :	/		
PRODUCT NAME :	AGENT RELEASE CONTROLLER		
PART NO. :	F/C/B2/3/00/ET1, F/C/B2/4/00/ET1		
PRODUCT CODE :	0402/M1/V2/ (M/K), 0402/M2/V2 (M/K)		
DOCUMENT NAME :	DRAWING – ARC		
DOC NO.:	AFS/CAGS/1.0.2	REV.NO. :	0
DOC DT.:	12/10/2023	REV.DT. :	0



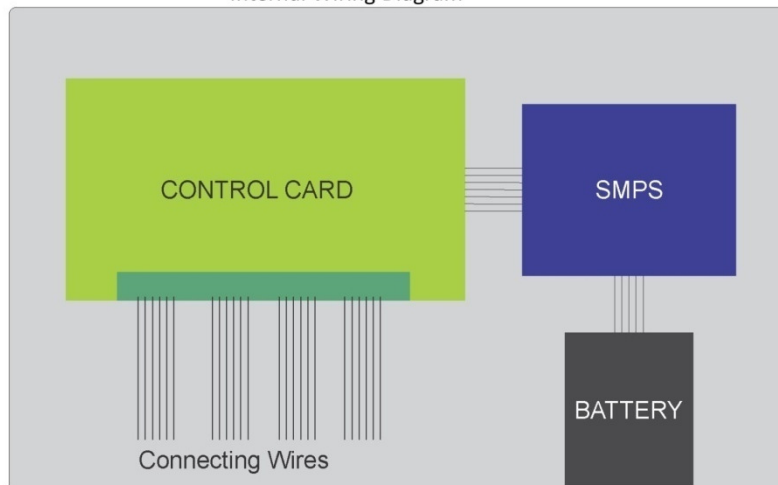
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TYPE : 1A (1 DISPLAY, CAN ACCOMMODATE INDIVIDUAL 1 OR 2 SYSTEM)



Rear View showing mounting holes

Internal Wiring Diagram





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FIXED DSPA FIRE SUPPRESSION SYSTEM

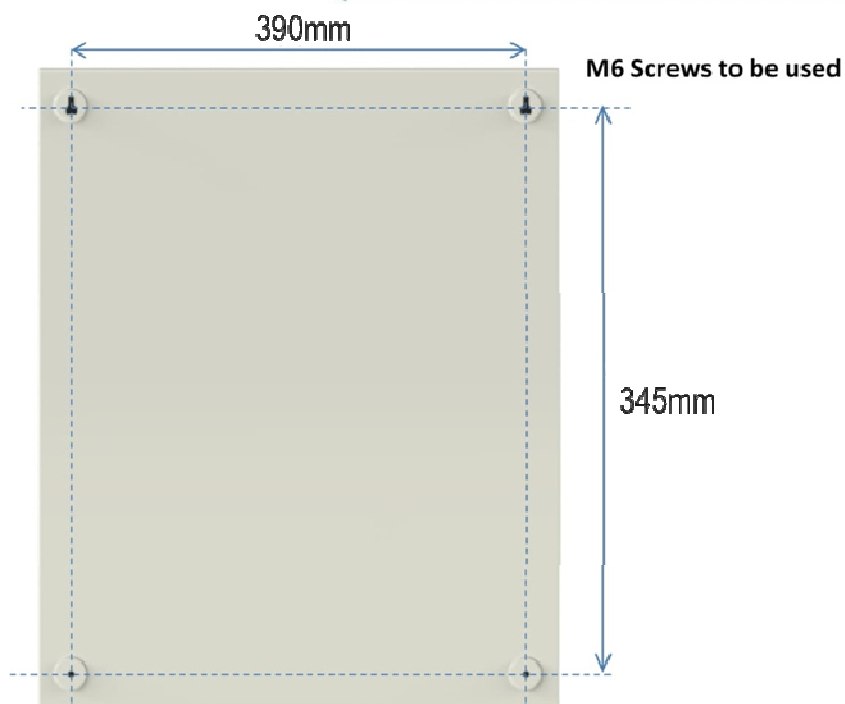
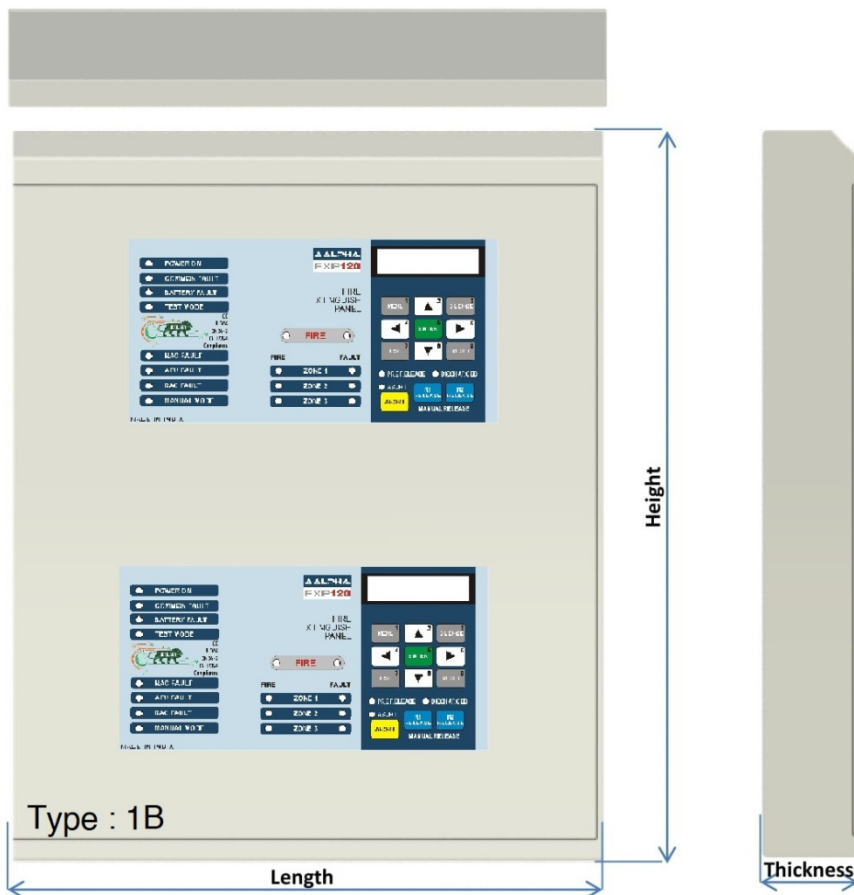
PROJECT :	HAZARDS ROOM/SHELTER PROTECTION		
CUSTOMER :			
PO NO. / DT. :	/		
PRODUCT NAME :	AGENT RELEASE CONTROLLER		
PART NO. :	F/C/B2/11/00/ET1, F/C/B2/13/00/ET1		
PRODUCT CODE :	0402/M3/V2/ (M/K), 0402/M4/V2/ (M/K)		
DOCUMENT NAME :	DRAWING – ARC		
DOC NO.:	AFS/CAGS/1.0.2	REV.NO. :	0
DOC DT.:	12/10/2023	REV.DT. :	0



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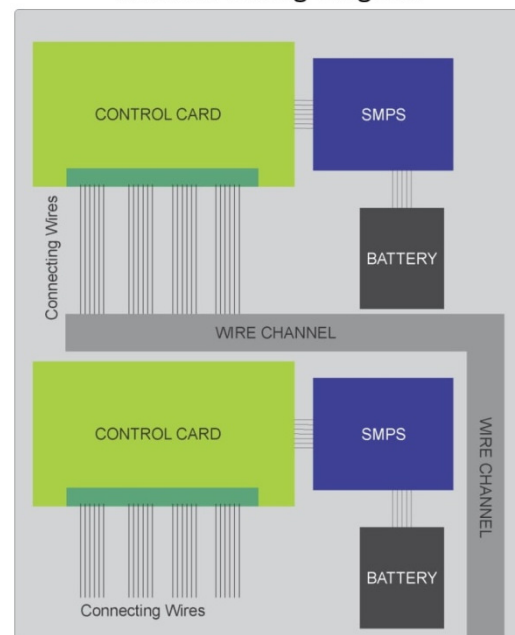
TYPE: 1B (2 DISPLAY, CAN ACCOMMODATE INDIVIDUAL 2 / 3 / 4 SYSTEM)

Length = 480mm,
Height = 640mm,
Thickness = 100mm



Rear View showing mounting holes

Internal Wiring Diagram





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FIXED DSPA FIRE SUPPRESSION SYSTEM

PROJECT :	HAZARDS ROOM/SHELTER PROTECTION		
CUSTOMER :			
PO NO. / DT. :	/		
PRODUCT NAME :	AGENT RELEASE CONTROLLER		
PART NO. :	F/C/B2/15/00/ET1, F/C/B2/17/00/ET1, F/C/B2/19/00/ET1, F/C/B2/21/00/ET1		
PRODUCT CODE :	0402/5/V2, 0402/M6/V2, 0402/M7/V2, 0402/M8/V2		
DOCUMENT NAME :	DRAWING – ARC ENCLOSURE TYPE 1C		
DOC NO.:	AFS/CAGS/1.0.2	REV.NO. :	0
DOC DT.:	12/10/2023	REV.DT. :	0



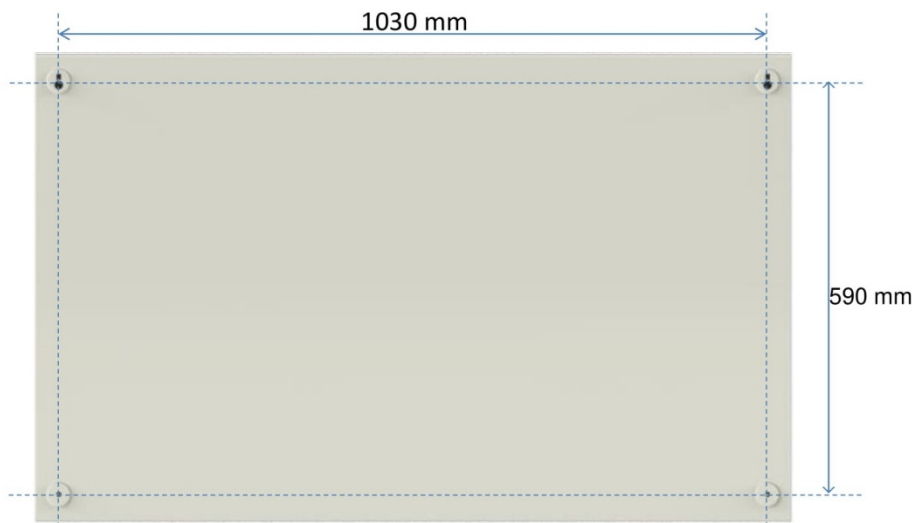
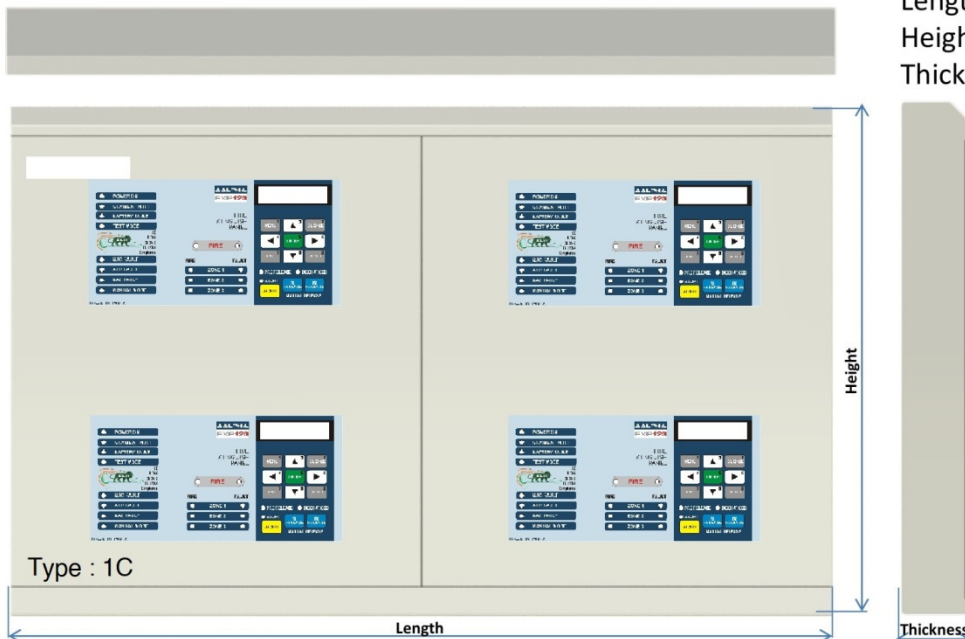
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TYPE:1C (4 DISPLAY, CAN ACCOMMODATE INDIVIDUAL 3 / 4 / 5 / 6 / 7 / 8 SYSTEM)

Length = 1140 mm

Height = 680 mm

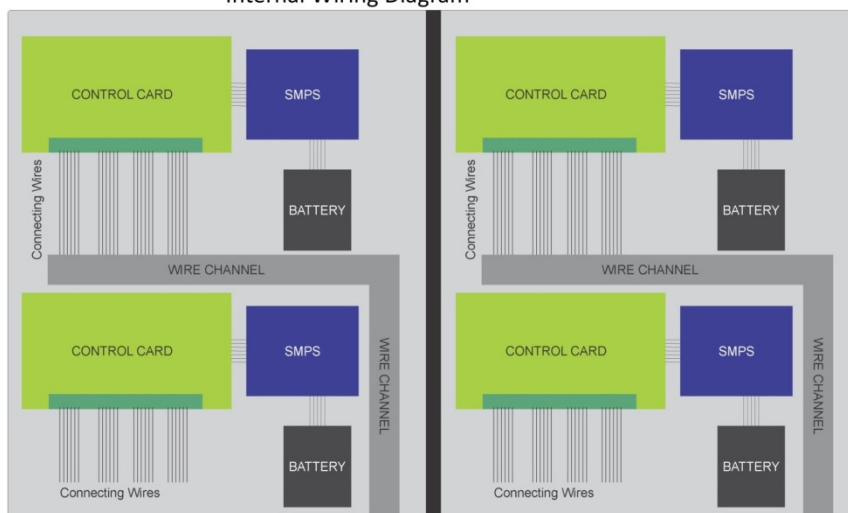
Thickness = 90 mm



M6 Screws to be used

Rear View showing mounting holes

Internal Wiring Diagram





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FIXED DSPA FIRE SUPPRESSION SYSTEM

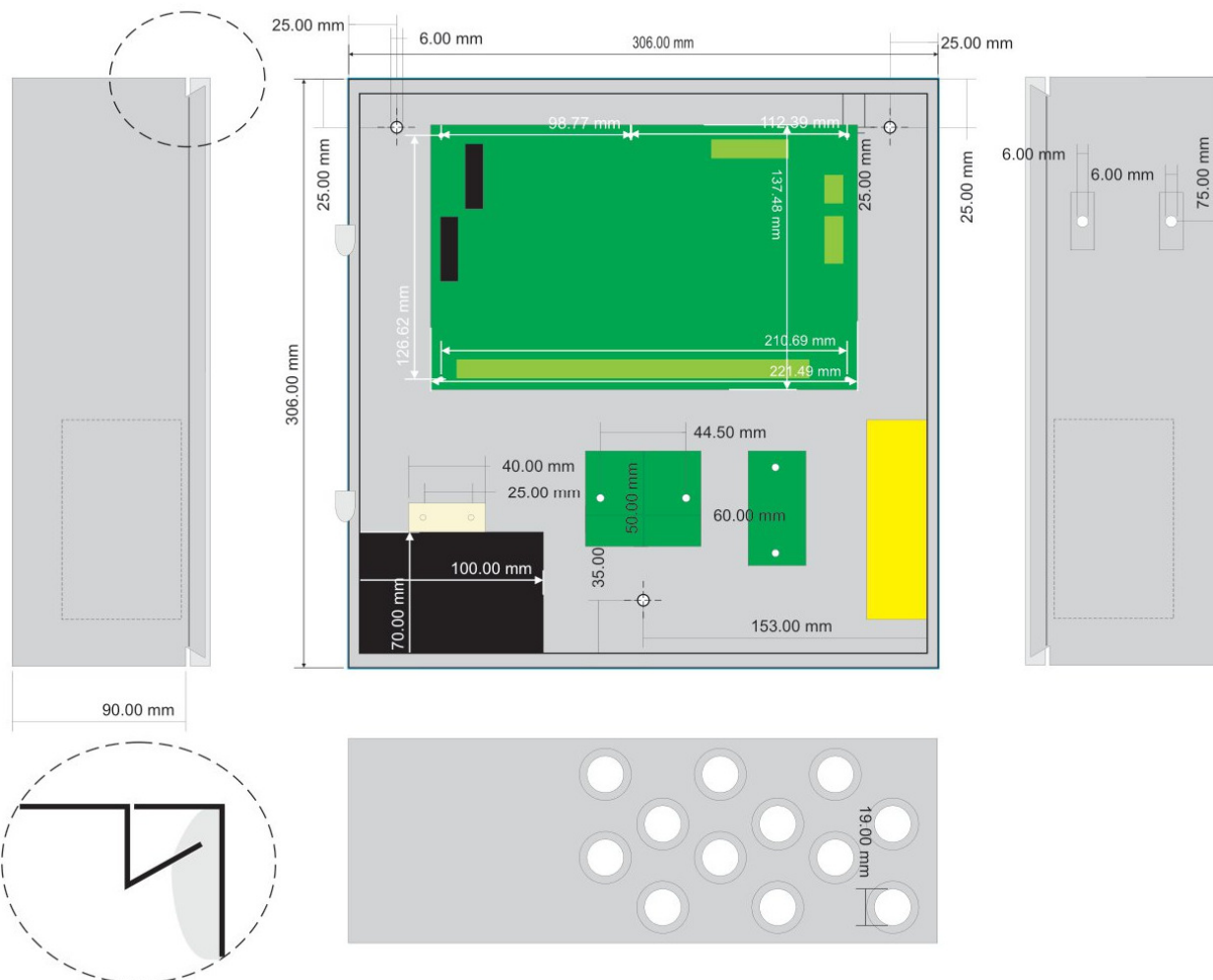
PROJECT :	HAZARDS ROOM/SHELTER PROTECTION		
CUSTOMER :			
PO NO. / DT. :	/		
PRODUCT NAME :	AGENT RELEASE CONTROLLER		
PART NO. :	F/C/B2/11/00/ET1, F/C/B2/13/00/ET1		
PRODUCT CODE :	0402/M3/V2/ (M/K), 0402/M4/V2/ (M/K)		
DOCUMENT NAME :	DRAWING – ARC		
DOC NO.:	AFS/CAGS/1.0.2	REV.NO. :	0
DOC DT.:	12/10/2023	REV.DT. :	0



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TYPE : 2A (1 DISPLAY, CAN ACCOMMODATE INDIVIDUAL 1 / 2 SYSTEM)

Length = 306mm,
Height = 306mm,
Thickness = 900mm





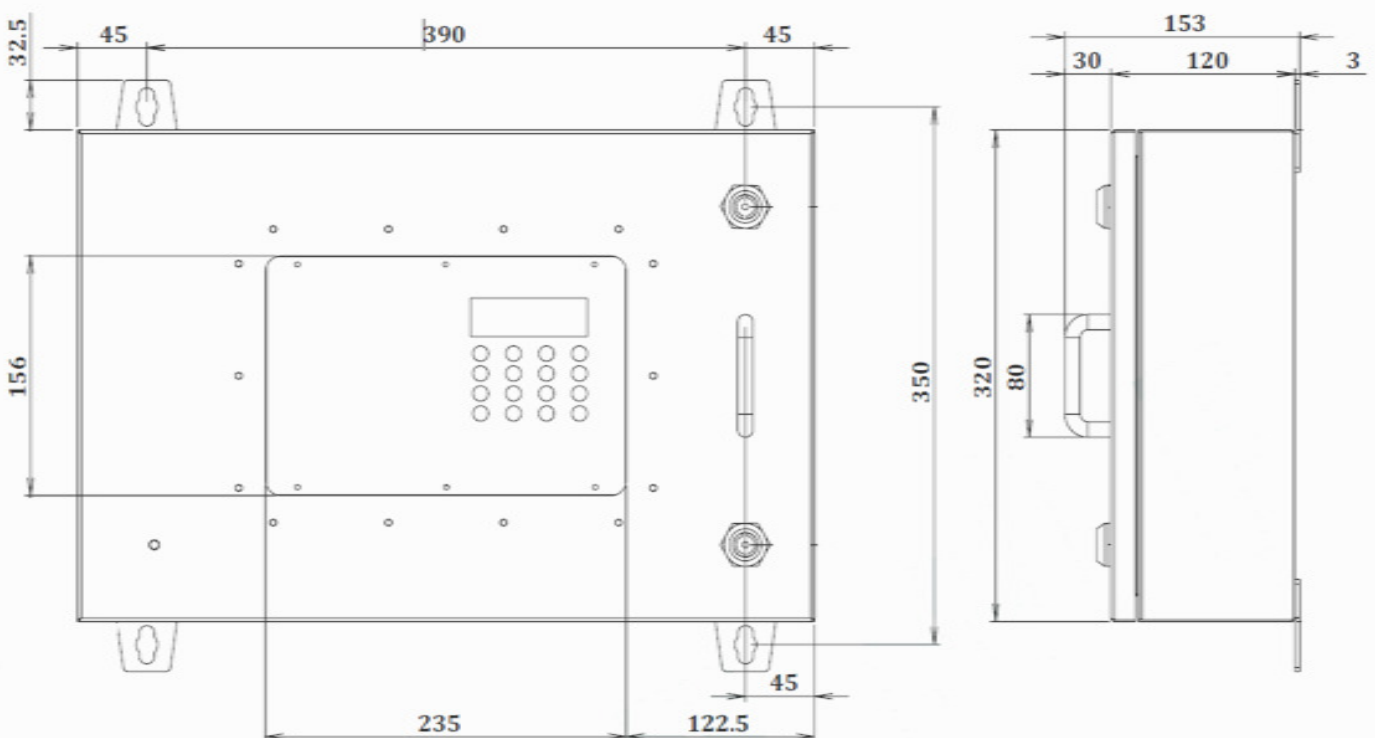
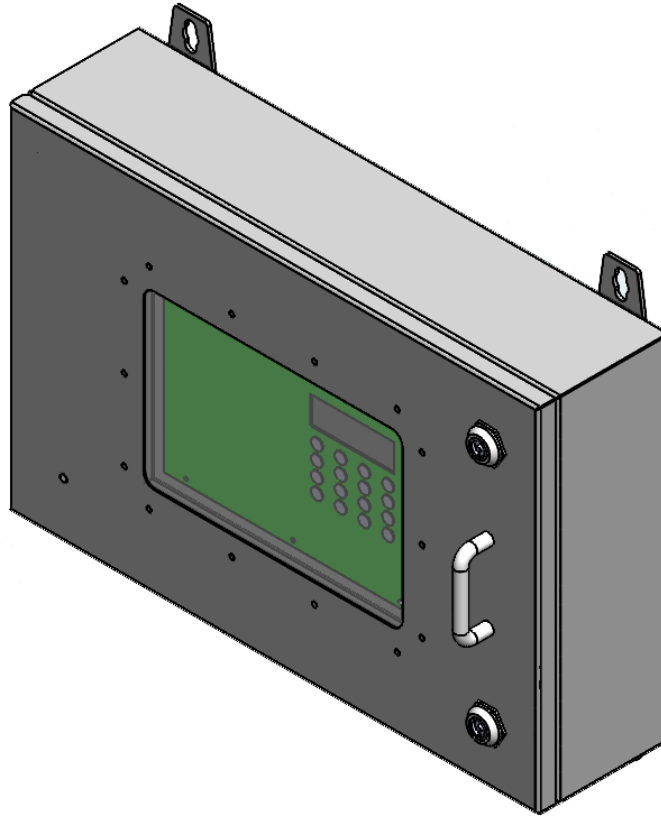
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FIXED DSPA FIRE SUPPRESSION SYSTEM		
PROJECT :	HAZARDS ROOM/SHELTER PROTECTION	
CUSTOMER :		
PO NO. / DT. :	/	
PRODUCT NAME :	AGENT RELEASE CONTROLLER	
PART NO. :	F/C/B2/3/00/ET3, F/C/B2/7/00/ET3	
PRODUCT CODE :	0402/M1/V2/ (M/K), 0402/M2/V2 (M/K)	
DOCUMENT NAME :	DRAWING – ENCLOSURE TYPE3 (IP66)	
DOC NO.:	AFS/CAGS/1.0.2	REV.NO. : 0
DOC DT.:	12/10/2023	REV.DT. : 0



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TYPE : 3 (1 DISPLAY, CAN ACCOMMODATE 1 / 2 INDEPENDENT SYSTEM)





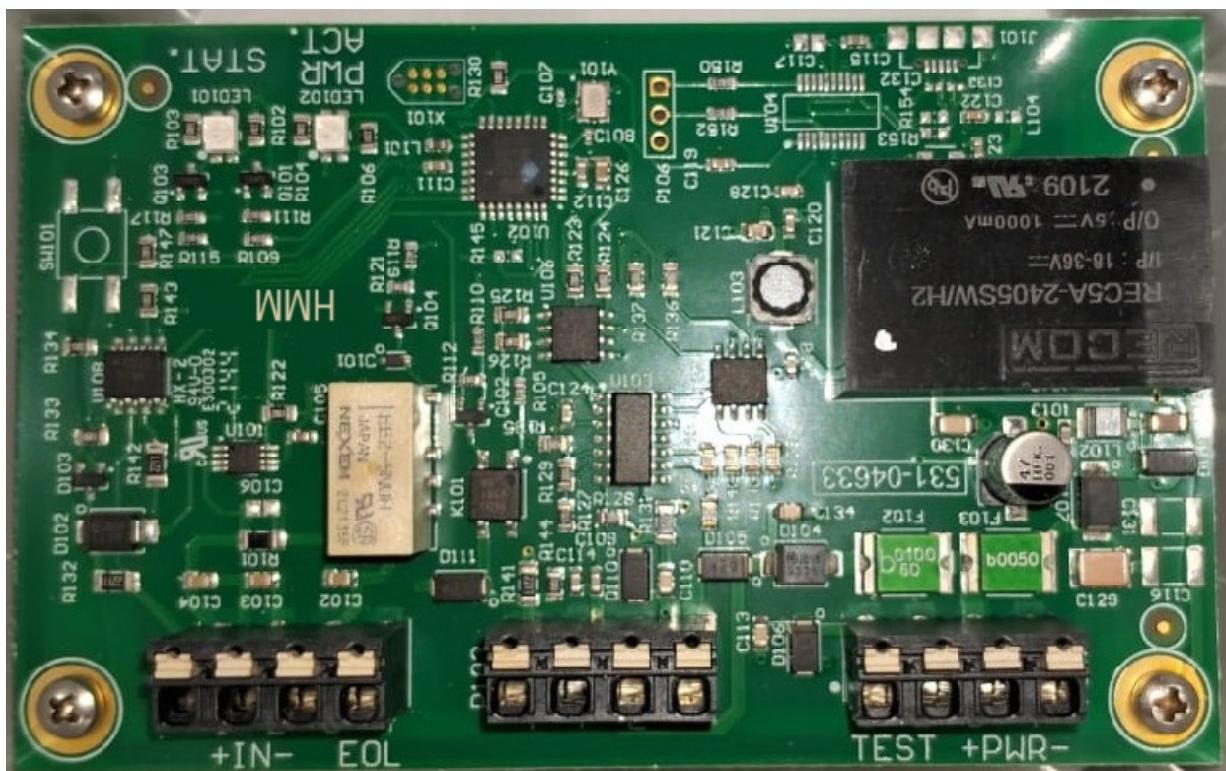
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FIXED DSPA FIRE SUPPRESSION SYSTEM

PROJECT :	HAZARDS ROOM/SHELTER PROTECTION		
CUSTOMER :			
PO NO. / DT. :	/		
PRODUCT NAME :	HEALTH MONITORING MASTER		
PART NO. :	F/C/B7/3/00		
PRODUCT CODE :	HMM		
DOCUMENT NAME :	DRAWING – HMM		
DOC NO.:	AFS/CAGS/1.0.2	REV.NO. :	0
DOC DT.:	12/10/2023	REV.DT. :	0



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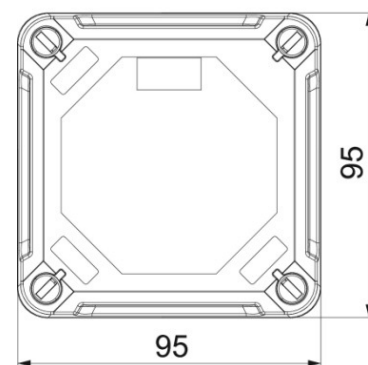
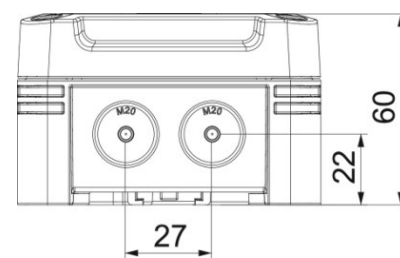
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FIXED DSPA FIRE SUPPRESSION SYSTEM

PROJECT :	HAZARDS ROOM/SHELTER PROTECTION		
CUSTOMER :			
PO NO. / DT. :	/		
PRODUCT NAME :	HEALTH MONITORING SLAVE		
PART NO. :	F/C/B7/4/00		
PRODUCT CODE :	HMS		
DOCUMENT NAME :	DRAWING – HMS		
DOC NO.:	AFS/CAGS/1.0.2	REV.NO. :	0
DOC DT.:	12/10/2023	REV.DT. :	0



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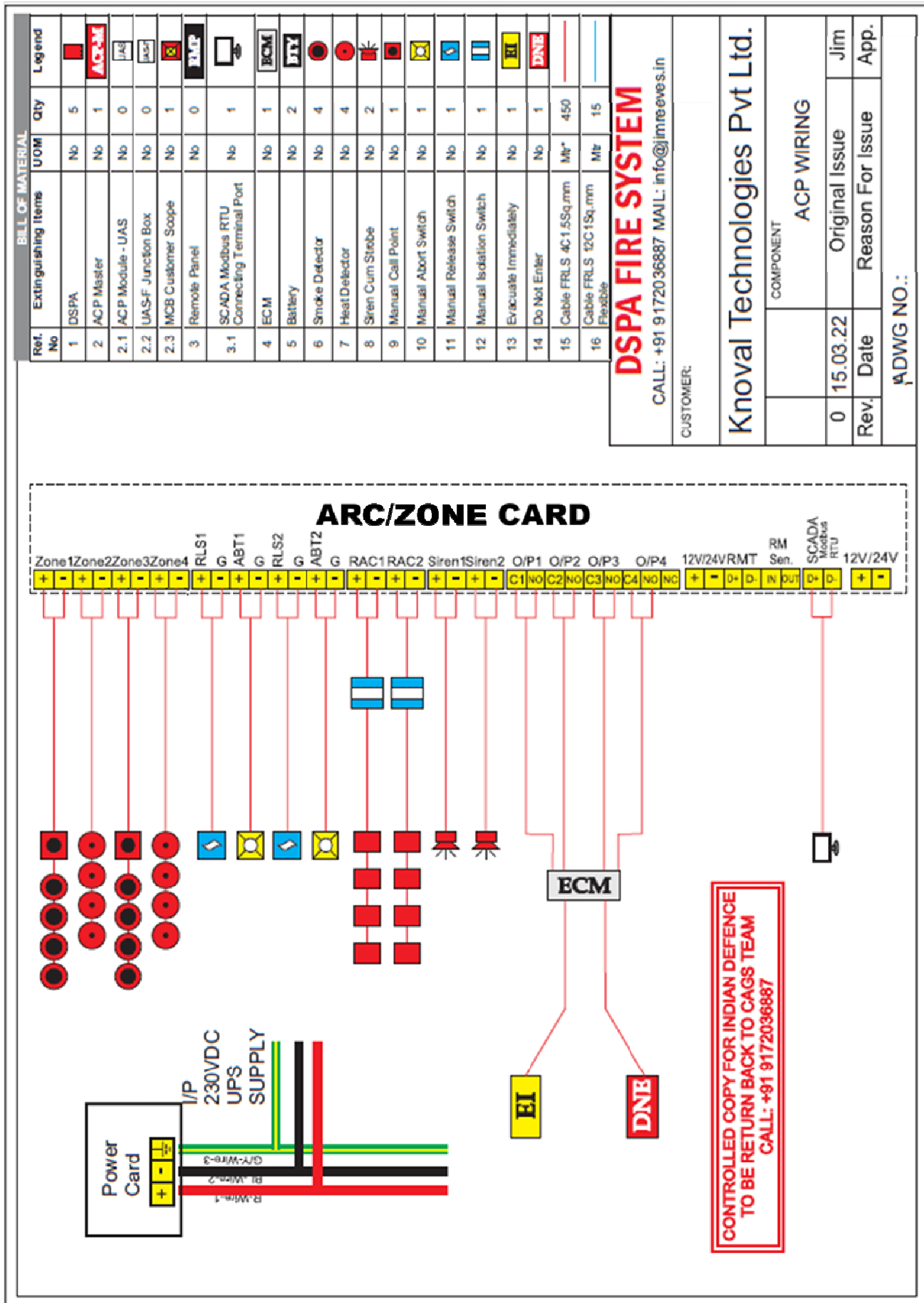
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FIXED DSPA FIRE SUPPRESSION SYSTEM

PROJECT :	HAZARDS ROOM/SHELTER PROTECTION		
CUSTOMER :			
PO NO. / DT. :	/		
PRODUCT NAME :	AGENT RELEASE CONTROLLER		
PART NO. :			
PRODUCT CODE :			
DOCUMENT NAME :	DRAWING – ARC SCHEMATIC WIRING DIAGRAM		
DOC NO.:	AFS/CAGS/1.0.2	REV.NO. :	0
DOC DT.:	12/10/2023	REV.DT. :	0



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FIXED DSPA FIRE SUPPRESSION SYSTEM

PROJECT :	HAZARDS ROOM/SHELTER PROTECTION		
CUSTOMER :			
PO NO. / DT. :	/		
PRODUCT NAME :	AGENT RELEASE CONTROLLER		
PART NO. :			
PRODUCT CODE :			
DOCUMENT NAME :	MODBUS MEMORY MAP		
DOC NO.:	AFS/CAGS/1.0.2	REV.NO. :	0
DOC DT.:	12/10/2023	REV.DT. :	0



Appendix: Modbus Memory Map

Following table shows the all MODBUS address, parameter details and commands to operate the system.

Function Code	Address	Data Type	Description	Status Details
03	1	INT	Zone1 Status	(0)-Normal, (2)-Open, (3)-Fire, (4)-Short
03	2	INT	Zone2 Status	(0)-Normal, (2)-Open, (3)-Fire, (4)-Short
03	3	INT	Zone3 Status	(0)-Normal, (2)-Open, (3)-Fire, (4)-Short
03	4	INT	Zone4 Status	(0)-Normal, (2)-Open, (3)-Fire, (4)-Short
03	5	INT	RAC1 Status	(0)-Normal, (9999)-Released, (9998)-Abort, (Timer)-Pre Release timer value
03	6	INT	RAC2 Status	(0)-Normal, (9999)-Released, (9998)-Abort, (Timer)-Pre Release timer value
Fault Status Registers				
03	7	INT	Fault Status	BIT(0)=RAC1 Fault, (0)- Normal, (1) - Fault BIT(1)=RAC2 Fault, (0)- Normal, (1) - Fault BIT(2)=RAC3 Fault, (0)- Normal, (1) - Fault BIT(3)=RAC4 Fault, (0)- Normal, (1) - Fault BIT(4)=NAC1 Fault, (0)- Normal, (1) - Fault BIT(5)=NAC2 Fault, (0)- Normal, (1) - Fault BIT(6)=AC Mains Fail, (0)- Present, (1) - Fail BIT(7)=Low Bat. (0)-Voltage normal, (1)-Low BIT(8)=Earth Fault, (0)- Normal, (1) - Fault BIT(9)=Rptr Comm. Fail, (0)- Normal, (1) - Fail BIT(10)=Rptr Cable Cut, (0)-Normal, (1)-Cut BIT(11) to BIT(15) – Don't Care
03	8	INT	RAC3 Status	(0)-Normal, (9999)-Released, (9998)-Abort, (Timer)-Pre Release timer value
03	9	INT	RAC4 Status	(0)-Normal, (9999)-Released, (9998)-Abort, (Timer)-Pre Release timer value
06	10	INT	NA	Reserved
03	11	INT	SEC	0~59
03	12	INT	MIN	0~59
03	13	INT	HOUR	0~23
03	14	INT	DAY	1~31
03	15	INT	MONTH	1~12
03	16	INT	YEAR	0~99
Function Code	Address	Data Type	Description	Status Details
03	17	INT	Release Mode	Auto(0), Manual(1)
03	18	INT	Supervi Mode Sel	Resettable(0), Latch able(1)
03	19	INT	Walk Tst Mode	Audible(0), Silent(1)
03	20	INT	ZONE1_MODE	Normal(0), Supervisory(1), walk test (2), Disable(3)
03	21	INT	ZONE2_MODE	Normal(0), Supervisory(1), walk test (2), Disable(3)
03	22	INT	ZONE3_MODE	Normal(0), Supervisory(1), walk test (2), Disable(3)
03	23	INT	ZONE4_MODE	Normal(0), Supervisory(1), walk test (2), Disable(3)
03	24	INT	RAC1_MODE	(Zone1&Zone2&Zone3&Zone4)(0) /(Zone1 Zone2 Zone3 Zone4)(1) / (Zone1&Zone2) (2)/ (RAC1 Bypass)(3)





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FIXED DSPA FIRE SUPPRESSION SYSTEM

PROJECT :	HAZARDS ROOM/SHELTER PROTECTION		
CUSTOMER :			
PO NO. / DT. :	/		
PRODUCT NAME :	AGENT RELEASE CONTROLLER		
PART NO. :			
PRODUCT CODE :			
DOCUMENT NAME :	MODBUS MEMORY MAP		
DOC NO.:	AFS/CAGS/1.0.2	REV.NO. :	0
DOC DT.:	12/10/2023	REV.DT. :	0



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03	25	INT	RAC2_MODE	(Zone1&Zone2&Zone3&Zone4)(0) /(Zone1 Zone2 Zone3 Zone4)(1) / (Zone3&Zone4)(2) / (RAC2 Bypass)(3)
03	26	INT	RAC3_MODE	Enable(0) / Disable(1)
03	27	INT	RAC4_MODE	Enable(0) / Disable(1)
03	28	INT	NAC1_MODE	Zone1 or Zone2 Fire (2)
03	29	INT	NAC2_MODE	Zone3 or Zone4 Fire (2)
03	30	INT	Pre_Relse_Time	0~150 Sec*
03	31	INT	Remote_Relse_Time	0~150 Sec*
03	32	INT	Reserved	NA
03	33	INT	Auto Silence	1~99 Min*
System Control Registers				
06	9	INT	System Control Register1	BIT(0)= set to 1 to activate RAC1 BIT(1)= set to 1 to abort RAC1 BIT(2)= set to 1 to activate RAC2 BIT(3)= set to 1 to abort RAC2 BIT(4)-BIT(6)= Reserved (NA) BIT(7)= set to 1 to reset the system BIT(8) to BIT(15)= Reserved (NA)
Function Code	Address	Data Type	Description	Status Details
06	10	INT	System Control Register2	BIT(0)= set to 1 to activate NAC1 BIT(1)= set to 1 to activate NAC2 BIT(2)= set to 1 to silence BIT(3)-BIT(15)= Reserved (NA)
RTC Update Write Registers				
06	11	INT	SEC	Valid range for Write 0~59
06	12	INT	MIN	Valid range for Write 0~59
06	13	INT	HOUR	Valid range for Write 0~23
06	14	INT	DAY	Valid range for Write 1~31
06	15	INT	MONTH	Valid range for Write 1~12
06	16	INT	YEAR	Valid range for Write 14~99

Note: Do not send System Reset and RAC Activate/Abort commands at the same time.

Note*: System should be reset after configuring these timers.

