



Vendor 	ABT 360 KT/Y PP PLANT Project		Owner  سراج گستران رجمال SERAJ GOSTARAN REJAL (سهامی خاص)
	Panel layout drawing		
	Vendor's Doc. No.: 23249-07 PPEC Doc. No.: L03-RE037-EL-GAD-003	Rev.: 00	

PPEC REQ. NO. : L03-RE037-EL-GAD-003

ITEM NO. :

TOTAL PAGE 1) Following isolated earth bar to be provided

ISE: for intrinsically safe signal
PE: safety earth (electrical and panel body)
IE: instrument earth

2) one normally close contact shall be considered as digital input , for remote trip command from plant ESD system

PPEC And

- **COMMENTED AS MARKED:** Documents/Drawings were Checked By PPEC And Marked Comments Must Be Considered By Vendor. Vendor Shall Revise Documents/Drawing As Per Comments And The New Revision Of Documents/Drawings Must Be Revised Prior To Fabrication.
- **REJECTED:** Documents/Drawings Were Checked And It Is Not In Comply With Purchase Requisition Requirements.
- **ACCEPTABLE WITH COMMENTS:** Documents/Drawings Were Checked By PPEC And Comments Must Be Considered By Vendor. Fabrication Can Proceed Accordingly. Revised Document To Be Issued Either For Review Or As Final Certified. However PPEC Will Check The Revised Document For Proper Incorporation Of Comments.
- **NOT RETURNED:** Document Was Received For Information And Not Returned To The Vendor.


Name :
Signature:
Date :

Req. No. :










Seq. No.:

PPEC review & comments does not absolve the vendor of the responsibility for the corrected design, manufacturing and operation of the equipment

00	16-04-2025	Issue for Engineering	R.T.	S.K.	J.J.	
REV.	DATE	Description	Prepared by	Checked by	Approved by	Authorized by

Vendor	ABT 360 KT/Y PP PLANT		Contractor (DEC)	Owner
	Panel layout drawing			
	Vendor's Doc. No.: 2 3 2 4 9 - 0 7	Rev.: 00		
PPEC Doc. No.: L03-RE037-EL-GAD-003				

PAGE NO.		CHANGE INDEX DURING FORMAL ISSUE						REASON OF LATEST CHANGE
		FIRST ISSUE	SECOND ISSUE	THIRTH ISSUE	FOURTH ISSUE	FIFTH ISSUE	SIXTH ISSUE	
		REV.00	REV.01	REV.02	REV.03	REV.04	REV.05	
1		X						
2		X						
3		X						
4		X						
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A	Nr.	Description	Tag Number	Brand	Model Number	Qty	GENERAL NOTES																																																																																																																		
	1	Panel Ventilation Fan and Filter	3M11	Rittal	3239.100; 3239.200	1																																																																																																																			
	2	Power On Indication Lamp (White)	2H19	Schneider Electric	XB4BVB1	1																																																																																																																			
	3	HMI Screen	9A4	Siemens	6AV2124-0GC01-0AX0	1																																																																																																																			
	4	Hour Meter	17U6	Bauser	629.2	1																																																																																																																			
	5	Maintenance Switches	2S2/6/9	Schneider Electric	VBF01	3																																																																																																																			
	6	Emergency Shutdown Pushbutton	4S13	Schneider Electric	XB4BS8444; ZBZ1605	1																																																																																																																			
	7	Dual Pole Circuit Breaker, 10A	2F15/17	Schneider Electric	A9P54610	2																																																																																																																			
	8	Dual Pole Circuit Breaker, 6A	3F4/10	Schneider Electric	A9P54606	2																																																																																																																			
B	9	Earth Leakage Circuit Breaker, 16A	3F7	Schneider Electric	A9DC2616	1																																																																																																																			
	10	Thermostat	3TH10	Rittal	3110000	1																																																																																																																			
	11	DC Power Supplies	2V15/17	Phoenix Contact	2866763	1																																																																																																																			
	12	ET200SP Bus Adapter	7M7	Siemens	6ES7193-6AR00-0AA0	1																																																																																																																			
	13	Central Processing Unit 1512SP	7M4	Siemens	6ES7512-1SK01-0AB0	1																																																																																																																			
	14	ET200SP 8xDI Card	8M3/4/5	Siemens	6ES7136-6BA01-0CA0	3																																																																																																																			
	15	ET200SP 8xDC Card	8M7/8/9	Siemens	6ES7136-6DC00-0CA0	3																																																																																																																			
	16	ET200SP 4xAI Card	8M11/12/13	Siemens	6ES7136-6AA00-0CA1	3																																																																																																																			
	17	Compact Switch Module CSM 1277	9M12	Siemens	6GK7277-1AA10-0AA0	1																																																																																																																			
18	Barriers Power Feeder	5U2	Pepperl+Fuchs	KFD2-EB2	1																																																																																																																				
19	Barriers	5U3/4/5/6/7/8	Pepperl+Fuchs	KFD2-STC5-Ex2	6																																																																																																																				
20	Single Pole DC Circuit Breakers, 10A	2F15.1/17.1	Schneider Electric	A9N61508	2																																																																																																																				
21	Quint Diode	2G14	Phoenix Contact	2907719	1																																																																																																																				
22	ESD Relay	4ESDR2/8	PILZ	750103; 750107	2																																																																																																																				
23	Interface Relays, 24VDC	4K5; 16K6/8/10/12/14/16; 18K14/16; 19K4/5/8/10; 21K4/6; 23K4/6	Phoenix Contact	2966171	17																																																																																																																				
24	Panel Socket Outlet (F-type)	3X7	Schneider Electric	0804024	1																																																																																																																				
25	Panel Light	3H4	Schneider Electric	SZ 2500.200; SZ 2500.400; SZ 2500.470	1																																																																																																																				
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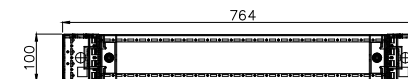
A

- B

C

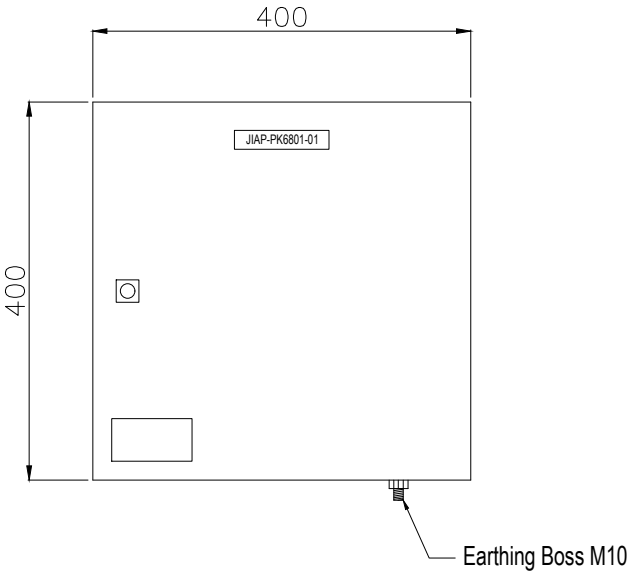
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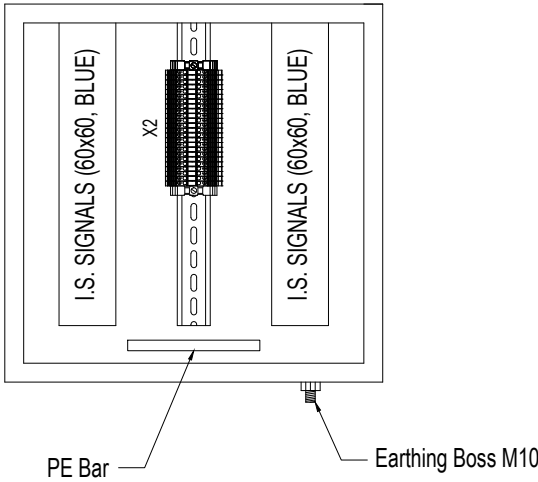
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Analog Junction Box
JIAP-PK6801-01

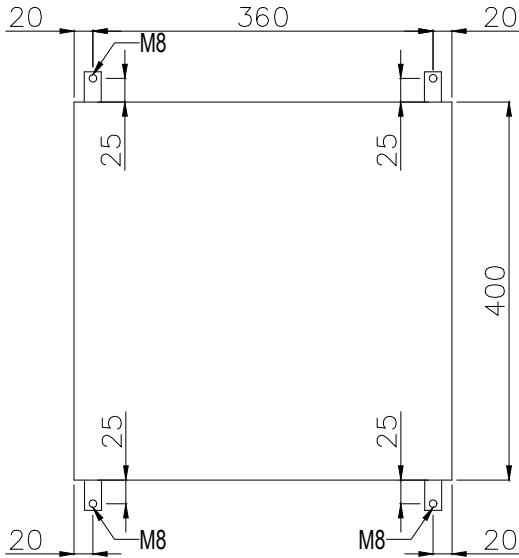
Front (Outside) View



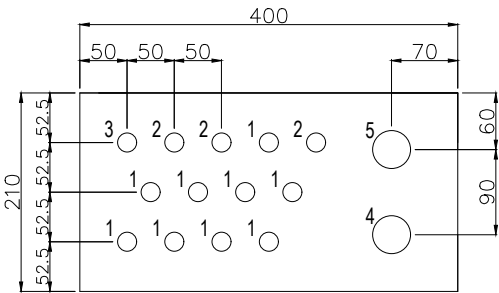
Front (Inside) View



Rear (Outside) View

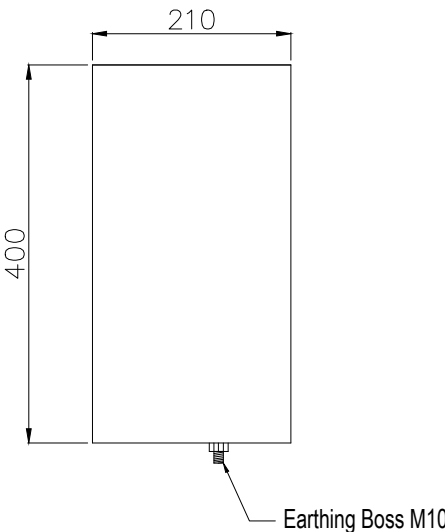


Bottom View



- 1. 9 x M20 - Single Pair Cables to I.S. Transmitters
- 2. 3 x M20 - Spare
- 3. 1 x M20 - Breather Drain
- 4. 1 x M40 - Multi Pair Cable to UCP
- 5. 1 x M40 - Spare

Side (Outside) View



GENERAL NOTES

- Notes:
- Panel Dimensions: 400x400x210
 - Panel Material: Stainless Steel SS316
 - Area Classification: Ex e IIC 2G T3
 - IP: 65
 - Color of Terminals and Raceways shall be gray for non-I.S. Signals and light blue for I.S. Signals.
 - Cable raceways shall have 20% spare space.
 - DIN Rail Type: NS35
 - For more details on Detail "A, B & C", refer to sheet 6.
 - Bottom cable entry with breather drain will be provided as per this drawing.
 - Cable glands will be brass nickel plated, certified, double compression type and will include an earth tag and a shroud.
 - Emergency Pushbutton shall be fitted with a cover to protect against accidental activation.

REFERENCE DOCUMENT

PIPING & INSTRUMENT DIAGRAM	L03-RE037-PR-PID-001
WIRING DIAGRAM (INCLUDING TERMINAL DIAGRAM)	L03-RE037-EL-DIG-001



LEGENDS & ABBREVIATION





DE	EXT	IFC	A
Eng. Phase	Purpose of Distribution (POD)	Purpose of Issue (POI)	Owner's Action
00	14-04-25	ISSUED FOR APPROVAL	RT RB JJ PW
REV.	ISSUE DATE	DESCRIPTION	PREPARED BY CHECKED BY APPROVED BY AUTHORIZED BY

DE CONTRACTOR :	BE CONTRACTOR :	OWNER :
PETRO PALAYESH ENGINEERING Co.	TG	SERAJ GOSTARAN REJAL

PROJECT : ABT 360KT/Y PP PLANT

TITLE : PANEL LAYOUT DRAWING

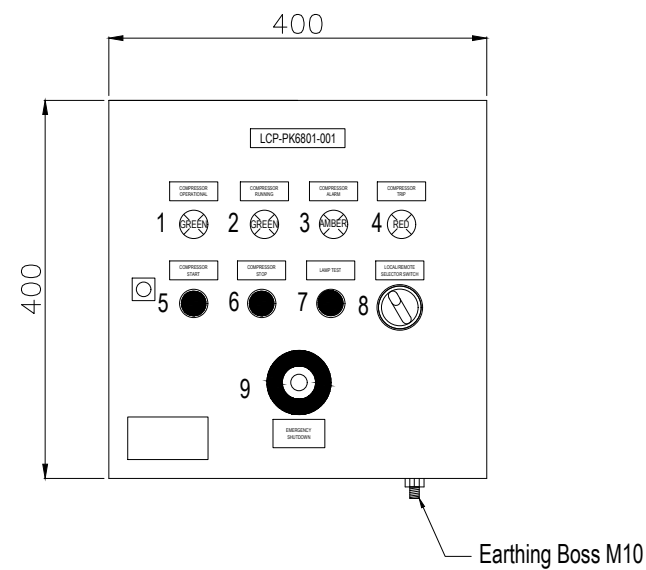
SCALE : N/A	DWG. NO. : L03-RE037-EL-GAD-003	PPEC PROJECT NO. : 1402-SGE-088	REV. : 00	SIZE : A3
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A	Nr.	Description	Tag Number	Brand	Model Number	Qty	GENERAL NOTES								
	1	Compressor Operational Lamp (Green)	3H3	Bartec	07-3353-120	1									
	2	Compressor Running Lamp (Green)	3H5	Bartec	07-3353-120	1									
	3	Compressor Alarm Lamp (Amber)	3H8	Bartec	07-3353-130	1									
	4	Compressor Trip Lamp (Red)	3H10	Bartec	07-3353-110	1									
	5	Compressor Start Pushbutton (Green)	2S4	Bartec	07-3323-400	1									
	6	Compressor Stop Pushbutton (Red)	2S6	Bartec	07-3323-400	1									
	7	Lamp Test Pushbutton (Black)	2S8	Bartec	07-3323-400	1									
	8	Local/Remote Selector Switch	2S10	Bartec	05-0003-00 1000	1									
9	Emergency Shutdown Pushbutton with Protective Cover	4S3	Bartec	05-0003-00 0800	1										
B															
C	REFERENCE DOCUMENT														
	PIPING & INSTRUMENT DIAGRAM					L03-RE037-PR-PID-001									
	WIRING DIAGRAM (INCLUDING TERMINAL DIAGRAM)					L03-RE037-EL-DIG-001									
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	LEGENDS & ABBREVIATION														
E	DE	EXT		IFC		A									
	Eng. Phase	Purpose of Distribution (POD)		Purpose of Issue (POI)		Owner's Action									
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SHEET : 4 OF 6															
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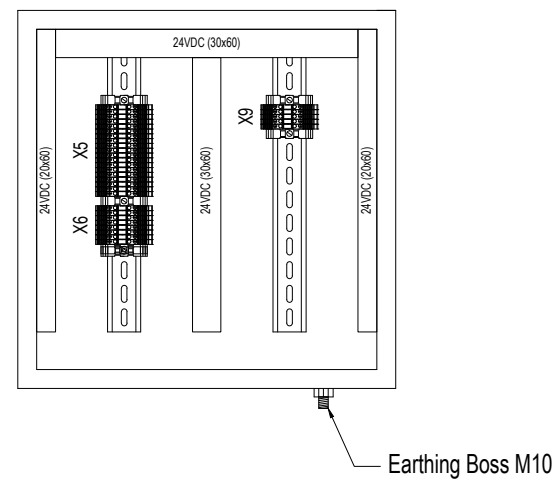
Local Control Panel

LCP-PK6801-001

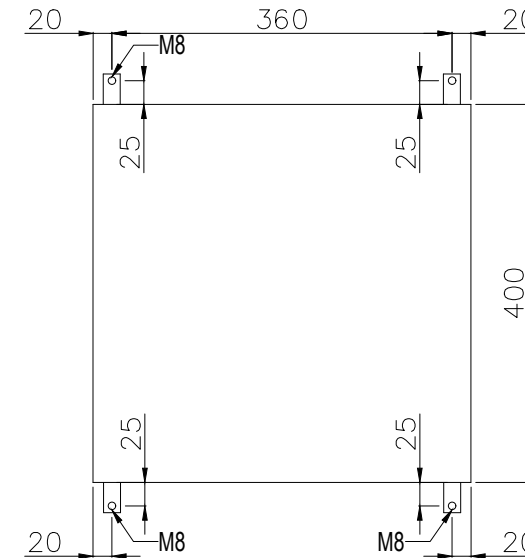
Front (Outside) View



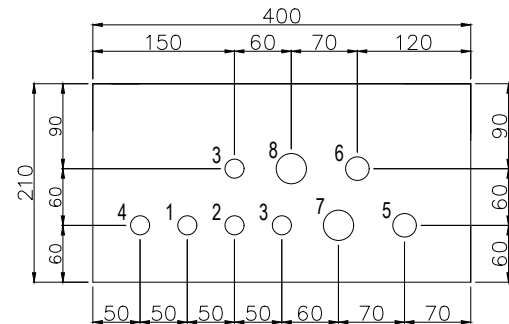
Front (Inside) View



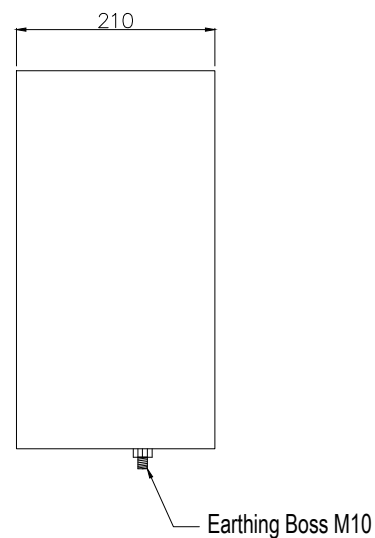
Rear (Outside) View



Bottom View



Side (Outside) View



- 1 x M20 - Multi Pair Cable (ESD Signals) to UCP
- 1 x M20 - Single Pair Cables to Solenoid
- 2 x M20 - Spare
- 1 x M20 - Breather Drain
- 1 x M25 - Multi Pair Cable (Solenoid Signals) to UCP
- 1 x M25 - Spare
- 1 x M32 - Multi Pair Cable (Pushbuttons & Lamps) to UCP
- 1 x M32 - Spare

GENERAL NOTES

Notes:

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- For more details on Detail "A, B & C", refer to sheet 6.
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PETRO PALAYESH ENGINEERING Co.	TECHNICAL GROUP COMPANY	SERAI GOSTARAN REJAL

PROJECT : ABT 360KT/Y PP PLANT

TITLE : PANEL LAYOUT DRAWING

SCALE : N/A	DWG. NO. : L03-RE037-EL-GAD-003	PPEC PROJECT NO. : 1402-SGE-088	REV. : 00	SIZE : A3
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