

1. DATA SHEET FOR PROGRAMMABLE LOGIC CONTROLLER

1.0	General		
1.1	Architecture of PLC		Micro PLC with Expandable Modules
1.2	Mounting		DIN rail mountable.
1.3	Power Supply		110 V AC +/- 10%, 50 Hz, If DC power models are offered separate power supply to be included.
2.0	Processor		
2.1	Memory		8 K Program Capacity; 8K Data Memory or better
2.2	Memory Type		Non-Volatile
2.3	Program backup		Internal flash memory or internal EEPROM with automatic backup
2.4	LED indication for RUN, Fault, Bat low etc		Required
2.5	Self Diagnostics		Required for basic diagnostic functions
2.6	Protocols for communication		RS 485 Modbus RTU or Ethernet TCP/IP
2.7	Programmer Interface		USB
3.0	I/O System		
3.1	I/O Capacity (Min)	Digital Inputs	24
		Digital Outputs	16
		Analog inputs	2
3.2	Interrogation voltage for I/O		24 V DC
3.3	Output Type		Relay Out puts, Rating 0.5A, 24 V DC
3.4	I/O Control method		Cyclic scan with immediate refreshing
3.5	Input type		Sinking
3.6	LED indication for every channel		Required
3.7	I/O Terminal screws		M3
4.0	Functions Required		Counter, Timer (settable 24Hrs or more), Retentive Timer, Sequential, Arithmetical, Comparison, Clock, logical etc
4.1	Clock		Required
4.2	Retentive timers		Required
5.0	Programmer		
5.1	Programming Software package		Required common for all PLC
5.2	Programmer Type		Laptop PC common for all PLC
5.3	Operating System		Windows
5.4	Programming Language		Ladder Diagram
5.5	Connection port for Programming Device		USB

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1	08.12.2020	REVISED	ERM	MPR	KVG
0	20.03.2019	FOR ENQUIRY	ERM	MPR/KVG	JKB
REV	DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED

6.0	Accessories	
6.1	Input Interposing Relay with base	Coil: 110V AC, 2CO with contact rating: 110 V AC 2A or higher
6.2	Output Interposing relay with base	Coil: 24 V DC, 2CO with Contact rating: 110 V AC 2A or higher
6.3	Digital Temperature Indicator	Universal input (mA, RTD, TC etc) with configuration facility through front buttons, PV LED display required, Alarm contact rating 110 V AC, 0.5A; Range 0-500.0°C; Make: Honeywell/Yokogawa

2. DATA SHEET FOR CONTROL PANEL

1.0	General	
1.1	Type	Wall Mounting
1.2	Make	Rittal /Hoffman
2.0	Dimension	
2.1	Size	800 (H)x 600 (W) x 300 (D) Note 1
2.2	Colour	RAL 7035
2.3	Doors	Mfr/ Standard
2.4	Mounting Accessories	Required
2.5	Glanding Plate location	Bottom
2.6	Panel Accessories	Lock and key & Gland Plate etc
3.0	Wiring	
3.1	Cable size	0.75 Sq. mm, Multi stranded or better
3.2	Feruling style	Cross Ferruling with single sleeved ferrules
3.3	Name Plates / Tagging	Required for all components & Panel
3.4	Wire colours	Power : Red & black; Signals – Grey; Earth : Green
3.5	Cable ducts	Slotted PVC
3.6	Cable lugs	Bootlace type
3.7	Terminals	Feed through Single fused type with M3 screws. Material polyamide.
3.8	DIN Rails	Top Hat type; Steel DIN Rail with zinc plated and chromate passivated.
4.0	Accessories	
4.1	Push Buttons	Type: Standard, Element : Dual (1 NO+1NC);
4.2	Indication Lamps	Type: Standard, LED, Rating : 24 V DC;
4.3	Selector Switch	Type: Standard, Element : Dual (1 NO+1NC);

Notes:

1. Dimensions indicated are min requirement. Vendor to suitably size the panel depending on requirement.