

HMI

Multi Loop Controller

MLC45



Advanced Process Controller	
	Interface to DCS / PLC
32 Dl's, 16DO's, 8 Al's, 4AO's	
	Easy operation and remote configuration with

MLC45 Multi loop controller is designed to measure & control the process parameters like Temperature, Pressure, Level etc to meet the process control requirements.

It incorporates 8 Analog Input (AI) channels, 32 Digital Input (DI) channel and 16 Digital Output (DO) channel which supports output type for relay, 4 Analog Output channel for 4-20mA for retransmission/ Control output (PI) and Dual RS485 MOBUS RTU. It contains user-friendly keypad and Alphanumeric LCD Display.

Features

- Analog input type (4-20mA)-8no's
- DO's (12no's-24V & 4no's-Potential free)
- DI's (25no's-24V & 7no's 230V AC)
- Quad 4-20mA output
- Supports multiple DI & DO's for relay control outputs
- 4-20mA retransmission output or control output (PI) for Process Value / Set Value
- User friendly Keypad –Alphanumeric LCD display interface

- Dual Industrial standard high-speed RS 485 communications for HMI & PLC/DCS/SCADA
- Non-volatile Flash memory for storing program parameters
- Hardware debugging incorporated for DI, DO, AI, AO

Applications

- Process control
- Reactor utility control
- SFHTS control

Network Architecture



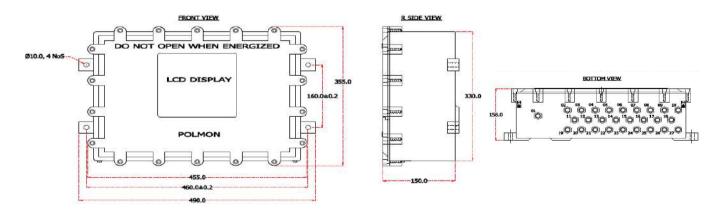
Specifications

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Technical				
Model No	MLC45-F-X-X			
Analog Input Type	4-20mA- 8no's			
Measuring Range, Accuracy and Resolution	Measuring Range	Resolution	Accuracy	
4-20mA	-1.999 to 9.999	0.001		
	-19.99 to 99.99	0.01	0.1% of FSR	
	-199.9 to 999.9	0.1	0.1% 0FFSR	
	-1999 to 9999	1		
Digital Input	24VDC-25no's, 230V AC-7no's			
Analog Outputs	4-20mA (500Ohms of Max load)- 4no's			
Digital Output	NO NC (Relays) 24VDC-12no's & Potential free-4no's			
Calibration	Zero & Span through keypad			
Display	16 Character *4 line Alphanumeric LCD			
Scan rate	1 Sec			
Communication	Dual RS485 for HMI & PLC/SCADA			
Control Type	On/Off, PID			
Control Modes	Retransmission & PI for 4-20mA			
Keypad	Magnetic Keys			
Security	Password protected programming mode			
Power Supply				
Input Supply	100 to 260V AC, 50 Hz			
Physical				
Enclosure	Flameproof for Zone1, Zone2 Gas Gr.IIA, IIB, IIC			
Material	Aluminium			
Weight	15Kg (Approx.)			
Dimensions (LxWxH)	480x360x165mm			
Mounting	Wall Mounting			
Cable Entries	38 No's ¾" ET			
Glands	Not Provided (Order separately)			
Environmental				
Operating Temperature	10 - 50°C			
Humidity	10-95%RH, Non-Condensing			

Ordering Information for MLC45				
MLC45	Х	X	X	
Model No.	Enclosure Type	System Type	Inputs& Outputs	
MLC45	F-FLP	1 – Customized #	X-DI: 24V DI's are 25No's 230V DI's are 7 No's DO: 24V DO's are 12No's C, NO DO's are 4 No's AI: 4-20mA AI's are 8No's AO: 4-20mA AO's are 4No's	
	R – NFLP		1 – DI : All DI'S(32 No's) are 24V DO : All DO'S(16 No's) are 24V AI : All Al'S(8 No's) are 4-20mA AO : All AO'S(4 No's) are 4-20mA	
	C– FLP IIC			

Note: # - Provide P&ID, Control Logic, Input and Output interface

MECHANICAL DRAWING of MLC45



Head Office: POLMON INSTRUMENTS PVT.LTD
(AN ISO 9001: 2015 Certified Company)
"POLMON HOUSE" Nizampet Road, Kukatpally, Hyderabad-500085
Ph No: 040-23053046, 23057308, 23055970, 23057642

Customer Care: 040-23892920 Fax: 040 – 23055425 e-mail: polmon@polmon.com URL: www.polmon.com