

pH Logger/Controller

INP152M



pH & Temperature Measurement	RS485 - MODBUS RTU
Flame Proof	Ethernet TCP/IP
Five Point Calibration	Dual Relay Output
Slope & Offset Display	Dual Analog Output

The POLMON pH Logger/Controller has been specially designed for Microprocessor based flame proof and Non-flame proof applications. This instrument provides dual Relay and Analog (current) output signal in Linear or PI mode for 0 to 14 pH (user configurable through software). This Instrument can be used for measurement of pH, Temperature. It is designed as the most convenient user instrument considering user problems while measuring pH. Built in diagnostics give you specific error messages with which you can identify the problems.

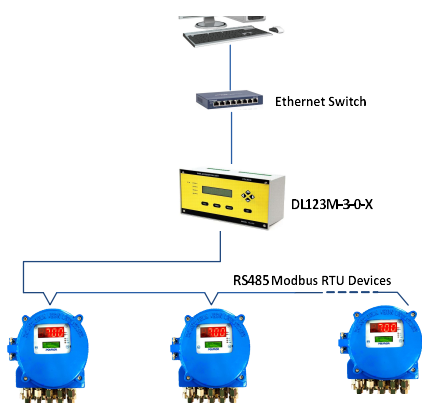
Features

- Multi parameter Measurement pH & Temperature
- 0.8" 4 digit seven segment LED display for pH / mV
- 8x2 Alphanumeric Dot Matrix LCD for temp and Error Messages
- Single Buffer / Two Buffer / Three Buffer / Four Buffer / Five Buffer Calibration
- NIST/USA/DIN/METROHM/FISHER/FLUKA /METLER TOLEDO/BECKMANN/RADIOMETER /BAKER/HAMILTON/DURACAL/Merck Titrisol /PRECISA/MERCK CERTIPUR/Custom Buffer selection to meet all calibration standards
- Dual 4-20mA for Retransmission as Linear or PI Control for Process Control (Optional)
- Relay (Dual SPDT Relay) for operating with Single Set, Dual Set, Dead band On/Off Control
- RS485 Communication with MODBUS and Proprietary Protocol (field configurable)
- Ethernet Communication with TCP/IP
- Built - in diagnostics give you specific error and corrective messages
- Password protected program menu to avoid unauthorized tampering
- Slope & Offset Display
- Magnetic key interface to avoid maintenance problems in Ex areas
- Choice of Automatic or Manual Temperature Compensation, Three-wire system compensates error due to cable resistance

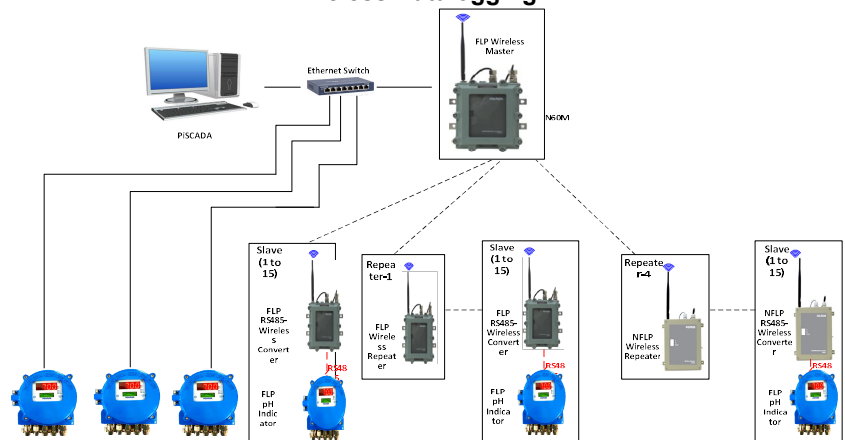
Applications

- Snubber pH Monitoring / Control
- Reactor pH Monitoring / Control

Wired Datalogging



Wireless Datalogging



Specifications

Technical			
Model No	INP152M-F		
Input Type	pH & Temp		
Measuring Range	pH mode	Temperature Mode	
	pH: 0.00 - 14.00 Temp: -25.0°C to 150.0°C	-50.0°C to 200.0°C	
Accuracy	pH: ±0.05		
	Temp: ±0.5°C		
	mV: ±1mV		
Resolution	pH: 0.00		
	Temp: 0.1°C		
	mv: 1mV		
Analog Output	Dual (4-20mA) for Retransmission / PID Control		
Analog Output Accuracy	±0.05mA		
Temperature Compensation	Automatic (PT100) / Manual (-25°C to 150°C)		
pH Calibration	Single Buffer / Two Buffer/ Three Buffer / Four Buffer / Five Buffer & sample Calibration		
Slope / offset adjustment	Slope recognition: 90% to 105% at pH 4 or 10.00		
	Offset recognition: ±30mV at pH 7		
Display	0.8" 4 digit seven segment LED		
	8 Character *2 line Alphanumeric LCD		
	3mm LED's for status indication		
Communication	RS485 Proprietary / MODBUS RTU (or) Ethernet TCP/IP		
Relay Output	Dual SPDT Contact, 230VAC, 3Amp		
Control Type	On / Off		
Control Modes, Control O/P & Control Type	Control Modes	Control Outputs	Control type
	High / Low	1 C NO/NC 230VAC, 3Amp	On/Off
	Dead Band		
	High & Low	2 C NO/NC 230VAC, 3Amp	On/Off
Acid / Base	Dual (4-20mA)		
Input Impedance	10 ¹² ohms		
Memory	Non volatile Flash memory for programming parameters		
Security	Password protected programming mode		

Power Supply	
Input Supply	100 to 240V AC, 50 Hz, 10W 24V AC/DC ±10%, 700mA(Optional)

Physical	
Enclosure	Flame proof for Zone1, Zone2 Gas Gr.IIA, IIB,
Material	Aluminium Alloy
Weight	4Kg (Approx)
Dimensions (LxWxD)	200x210x112mm
Cable Entries	11 No's 3/4" ET (Glands Not Included in Supply) --

Environmental	
Operating Temperature	10 to 50 °C
Humidity	10-95%RH, Non-Condensing

General	
INP150T-M	pH Transmitter for INP152M (Order Separately)
INP150C-1-05	8 core Shielded Armored cable for INP152M-F (5mtrs) (Order Separately)
INP150C-1-10	8 core Shielded Armored cable for INP152M-F (10mtrs) Optional (Order Separately)
DC Gland Size	3/4" ET (Order Separately) (Power Supply-1No, Transmitter-1No, RS485-2No, Ethernet-1No, Relay/4-20mA-2No)

Ordering Information for INP152M						
INP152M	X	X	X	X	X	
Model No	Enclosure Type	Relay Output	Analog Output	Communication Output	Power Supply	Feature Use
INP152M	F – FLP	#1 – Yes	0 – NA	1 – RS-485 Modbus RTU	1 – 230V AC	X
	R – NFLP		#1 – Dual 4-20mA	2–Ethernet TCP/IP	2 – 24V AC/DC	

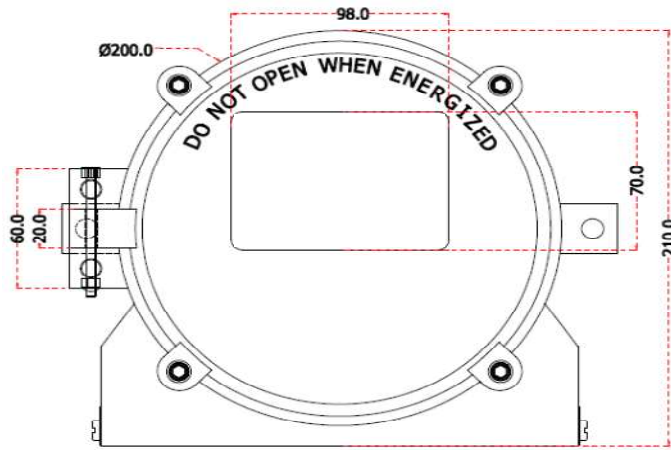
Note: # - Dual Output

Ordering Information for INP150T	
INP150T	X
Model No	Output Type
INP150T	M – For pH Logger/Controller & Microprocessor Industrial pH Indicator

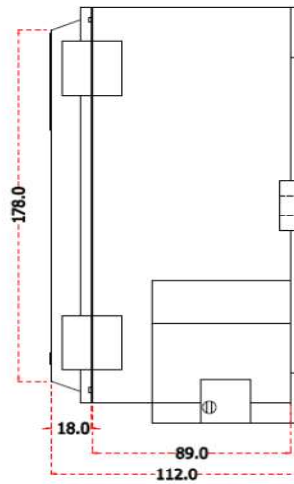
Note: Order compulsory for INP152M

Ordering Information for INP150C		
INP150C	X	X
Model No	Cable Type	Cable Length in mtrs
INP150C	1 – 8 Core Shielded Armored	05 – 5mtrs
	2 – 8 core Shielded Teflon	10 – 10mtrs

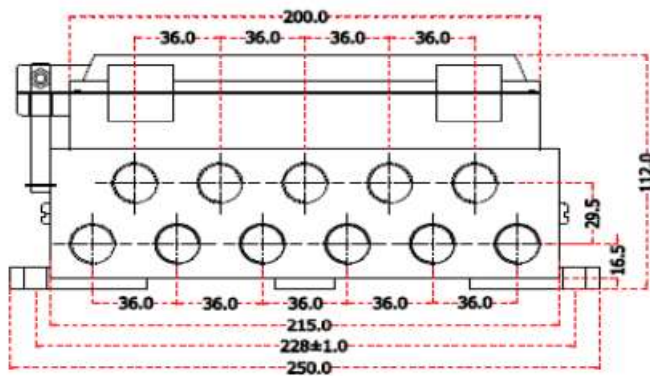
Note: Order Compulsory for INP152M



FRONT VIEW



R.SIDE VIEW



BOTTOM VIEW