

pH Logger/Controller

INP151M



pH / mV & Temperature Measurement	Ex 'd' Enclosure for gas Group IIA, IIB
Five Point Calibration	Dual Analog Output
Dual Relay Output	RS485 - MODBUS

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 or voltage) 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 and ORP. 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

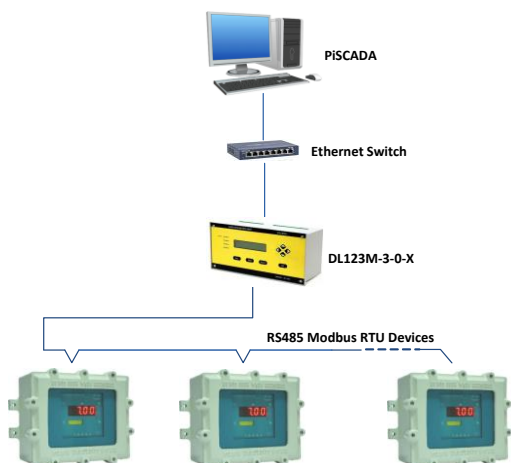
- Multi parameter Measurement pH / mV & Temperature
- 0.8" 4 digit seven segment LED display for pH / mV
- 8x2 Alphanumeric Dot Matrix LCD for temp and Error Messages
- Single Buffer / Two Buffer / Three Buffer / Four Buffer / Five Buffer Calibration
- NIST/USA/DIN/Custom Buffer selection to meet all calibration standards
- Dual Current / Voltage 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)
- Built - in diagnostics give you specific error and corrective messages
- Password protected program menu to avoid unauthorized tampering
- Magnetic key interface to avoid maintenance problems in Ex areas
- Splash-proof membrane Keyboard with Soft Touch Tactile Keys for Non-Ex areas

- Choice of Automatic or Manual Temperature Compensation, Three-wire system compensates error due to cable resistance

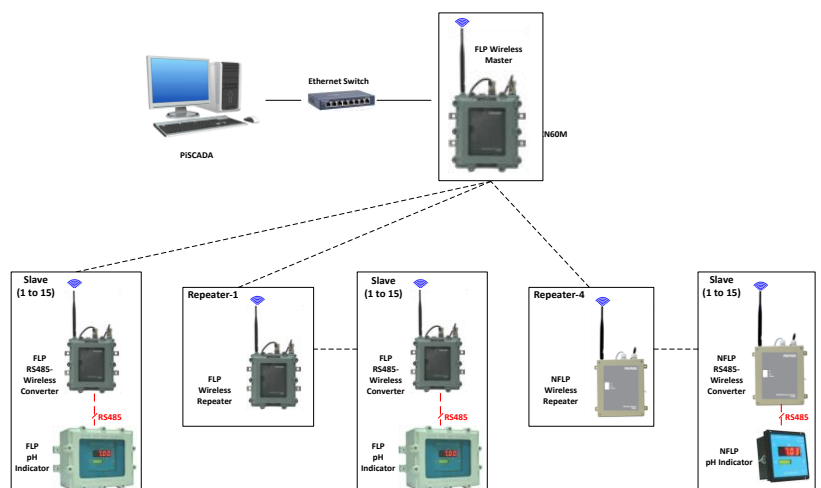
Applications

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

Wired Datalogging



Wireless Datalogging



Specifications

Technical			
Model No	INP151M		
Input Type	pH / mV (ORP) & Temp		
Measuring Range	pH mode	Temperature Mode	ORP Mode
	pH: 0.00 - 14.00 Temp: -25.0°C to 150.0°C	-50.0°C to 200.0°C	±1000mV
Accuracy	pH: ±0.05		
	Temp: ±0.5°C		
Resolution	mV: ±1mV		
	pH: 0.00		
	Temp: 0.1°C		
Analog Output (Dual)	mv: 1mV		
Temperature Compensation	(4-20mA)/ (0-20mA)/ (0-24mA)/ (0-5V) (0-10V) (Optional), Accuracy: ±0.05% of span		
pH Calibration	Automatic (PT100) / Manual (-25°C to 150°C)		
Slope / offset adjustment	Single Buffer / Two Buffer/ Three Buffer / Four Buffer / Five Buffer & sample Calibration		
Display	Slope recognition: 80% to 105% at pH 4 or 9.2		
	Offset recognition: ±120mV at pH 7		
	0.8" 4 digit seven segment LED		
Communication	8 Character *2 line Alphanumeric LCD		
Control Type	3mm LED's for status indication		
Control Modes, Control O/P & Control Type	RS485 Proprietary / MODBUS RTU		
	On / Off, Dual PID (Optional)		
	Control Modes	Control Outputs	Control type
	High / Low	1 C NO/NC 230VAC, 1 Amp	On / Off
	Dead Band		
	High & Low	2 C NO/NC 230VAC, 1 Amp	On / Off
Input Impedance	Acid / Base	4-20mA	PID
Memory	pH Retransmission	4-20mA	Linear
Security	10 ¹² ohms		
Power Supply	Non volatile Flash memory for programming parameters		
Input Supply	Password protected programming mode		
Physical			
Enclosure	FLP	NFLP	
Weight	Ex 'd' for Zone1, Zone2 Gas Gr.IIA, IIB	SS304	
Dimensions (LxWxD)	8Kg (Approx)	5Kg (Approx)	
Cable Entries	300x250x150mm	296x226x135mm	
Environmental	7 No's ¾" ET, 1No ½" ET	8 No's ½" NFLP Glands	
Operating Temperature	10 to 50 °C		
Humidity	10-95%RH, Non-Condensing		
General			
INP150T-M	pH Transmitter for INP151M		
INP150C-1-05/10	8 core Shielded Armored cable for INP151M-F (5mtrs / 10mtrs)		
INP150C-2-05/10	8 core Shielded Teflon cable for INP151M-R (5mtrs / 10mtrs)		

Ordering Information for INP151M					
INP151M	X	X	X	X	X
Model No	Enclosure Type	Relay Output	Analog Output	Communication Output	Future Use
INP151M	F – FLP	#1 – Yes	0 – NA	1 – Yes	X – 230V AC
	R – NFLP		#1 – Yes		1 – 24V AC/DC

Note: # - Dual Output

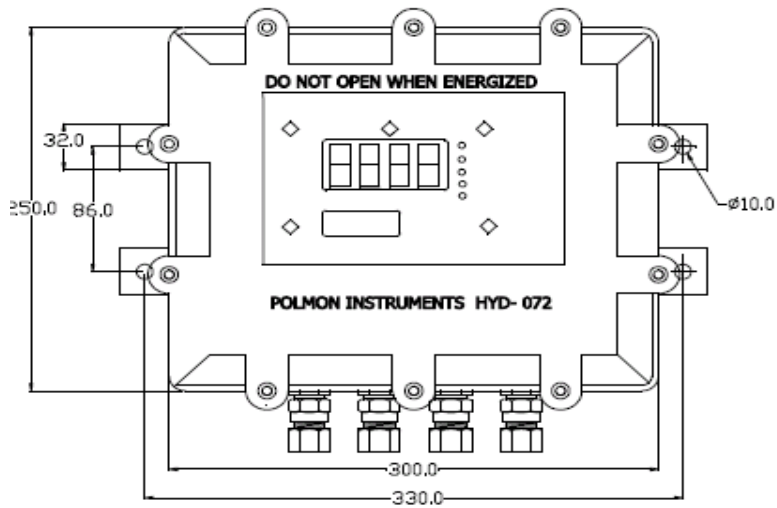
Ordering Information for INP150T	
INP150T	X
Model No	Output Type
INP150T	M – For pH Logger/Controller & Microprocessor Industrial pH Indicator

Note: Order compulsory for INP151M

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 INP151M

MECHANICAL DRAWING OF INP151M (FLP)



MECHANICAL DRAWING OF INP151M (NFLP)

