POLMON
Measure. Control. Automate.

pH Logger/Controller

INP151M-F



INP151M-D



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

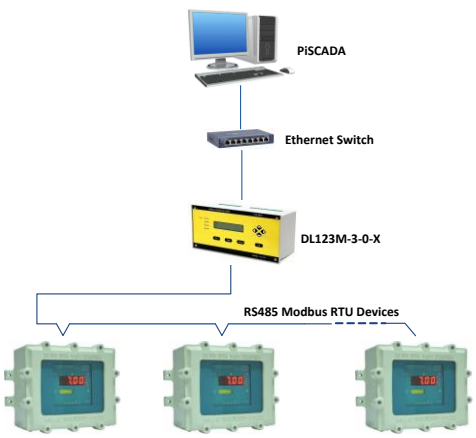
Features

- 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

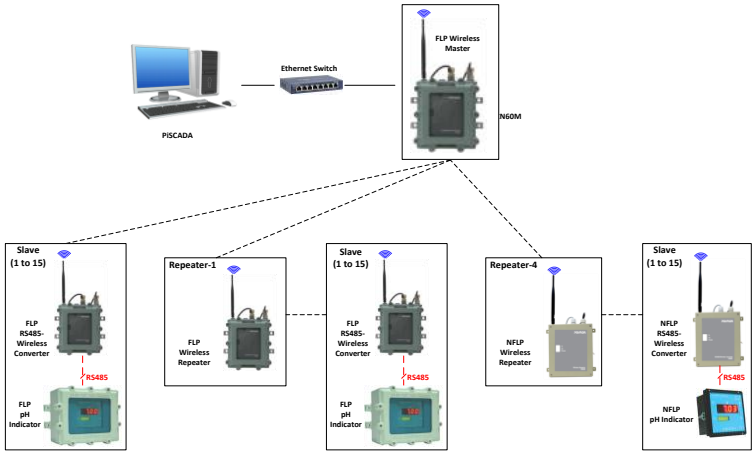
Applications

- 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		
	mV: ±1mV		
Resolution	pH: 0.00		
	Temp: 0.1°C		
	mv: 1mV		
Analog Output (Dual)	(4-20mA)/ (0-20mA)/ (0-24mA)/ (0-5V/) (0-10V) (Optional), Accuracy: ±0.05% of span		
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: 80% to 105% at pH 4 or 9.2		
	Offset recognition: ±120mV 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		
Control Type	On / Off, Dual PID (Optional)		
Control Modes, Control O/P & Control Type	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
	Acid / Base	4-20mA	PID
	pH Retransmission	4-20mA	Linear
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			
	FLP	NFLP	DIN
Enclosure	Ex 'd' for Zone1, Zone2 Gas Gr.IIA, IIB	SS304	ABS Plastic
Weight	8Kg (Approx)	5Kg (Approx)	1Kg (Approx)
Dimensions (LxWxD)	300x250x150mm	296x226x135mm	144x144x85mm
Cable Entries	7 No's ¾″ ET , 1No ½" ET	8 No's ½" NFLP Glands	--
Environmental			
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
	D – DIN				

Note: # - Dual Output

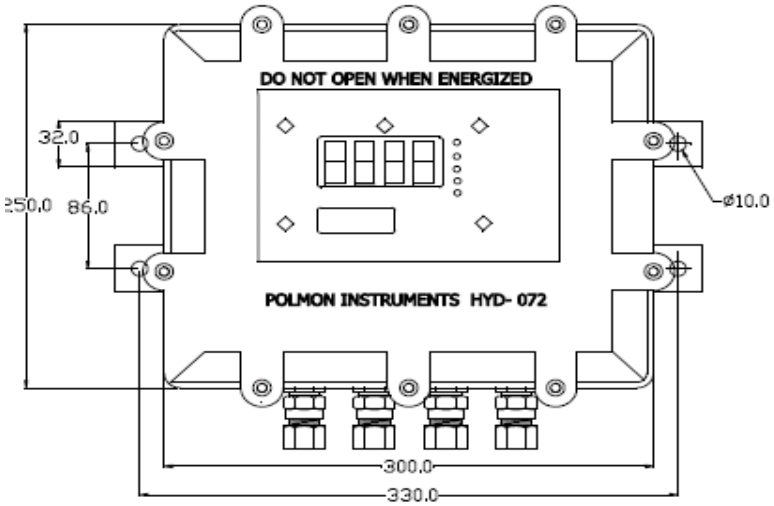
Ordering Information for INP150T	
INP150T	**X**
Model No	***Output Type***
INP150T	M – For pH Logger/Controller & Microprocessor Industrial pH Indicator

Note: Order compulsory for INP151M

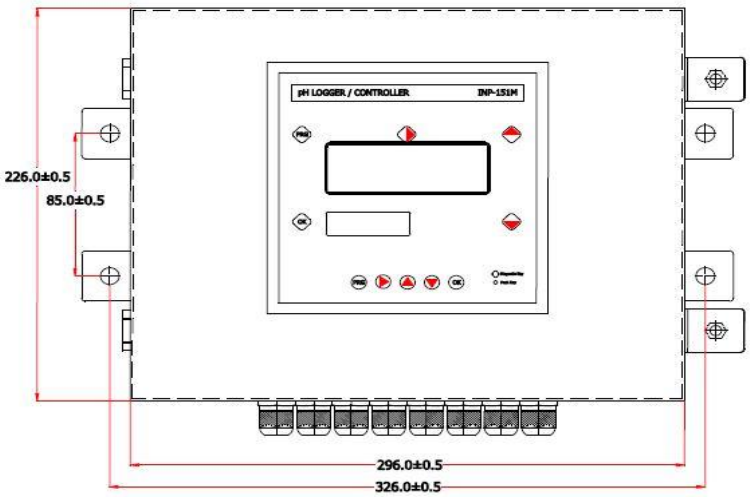
Ordering Information for INP150C		
INP150C	**X**	**X**
Model No	***Cable Type***	***Cable Length in mtrs***
INP150C	1 – 8 Core Shielded Armored	05 – 5mtrs
	2 – 8 core Shielded Teflon	10 – 10mtrs

Note: Order Compulsory for INP151M

MECHANICAL DRAWING OF INP151M (FLP)



MECHANICAL DRAWING OF INP151M (NFLP)



Head Office: POLMON INSTRUMENTS PVT.LTD
(AN ISO 9001: 2015 Certified Company)
"POLMON HOUSE" Nizampet Road, Kukatpally, Hyderabad–500085
Ph No: 040-23053046, 23057308
e-mail: polmon@polmon.com URL: www.polmon.com

All specifications are subject to change without notice.
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