

# ULTRA PRECISION PH ANALYZER & CONTROLLER

(A.C./D.C./PULSE)

## Introduction:

Precision Ph meters are available in 8 different regular models apart from tailor made solutions virtually covering all industrial and research applications meeting all electrical, thermal, mechanical, and environmental specifications. These monitors are first choice for online monitoring of ultra low ph value of sample. These may be used for in-line application as well with R.T.U. These find defense, electrical/mechanical m/c testing instrument, industrial electronics, railway, and avionics and solid state physical application like dielectrics characterization, biomedical, pathlab, MEMS and many research and development activities. These precision instruments are compatible to any standard with very high degree of accuracy/repeatability/reliability and are available in different constructional material like ceramic-coated MS, poly carbonate cabinets.

## Benefits:

- Ultra high input impedance/negligible biased current /higher accuracy.
- 4-1/2, 5-1/2 & 6-1/2 digit display /consistent performance
- stable over large temperature/humidity range (70°C and 80 % RH)
- Scaled directly in Ph or allied measurement with repeatable accuracy.
- Auto/manual zero offset without drift.
- Auto drift tracking
- RS-32 interface/high sample rate – 10,000 sample/second.
- Feed back current measurement technique.



MPHA-0009991

## General electrical/mechanical specifications Ph analyzer;

Model	Ph-Range	Burdon	Accuracy Restricted to Resolution level	Resolution Quantified/ optional	Voltage/current source Volt/current/	INTERFACE
MPHA-9999990101	0.00000 to 13.99999	< 100 counts	99.99999%	1 counts	015 VOLTS/001.0 A	RS-232USB
MPHA-9999990401	0.00000 to 13.99999	< 100 counts	99.99999%	1 counts	040 VOLTS/001.0 A	RS-232/USB
MPHA-9999990102	0.00000 to 13.99999	< 100 counts	99.99999%	2 counts	015 VOLTS/001.0 A	RS-232/USB
MPHA-9999990402	0.00000 to 13.99999	< 100 counts	99.99999%	2 counts	040 VOLTS/001.0 A	RS-232/USB
MPHA-9999991002	0.00000 to 13.99999	< 100 counts	99.99999%	1 counts	100 VOLTS/001.0 A	RS-232/USB
MPHA-9999992002	0.00000 to 13.99999	< 100 counts	99.99999%	2 counts	200 VOLTS/001.0 A	RS-232/USB
MPHA-9999992003	0.00000 to 13.99999	< 100 counts	99.99999%	5 counts	200 VOLTS/010.0m A	RS-232/USB

Six digit after product code indicate count, next, Two digit indicate voltage and last digit indicate 01- nano amp/02-pico amp/03-femto amp.

## General electrical/mechanical specifications of Ph meter;

Operating voltage: 220 volt A.C. /50

Measurement range (full scale): as above in different model.

Measurement Range (Ph): 0.00000 to 13.999999

Temperature: -99.9999 to 99.9999 deg cel

Input capacitance: 10 nF

Response time: 1000 sample/sec

Burden: less than 100 count

Accuracy error: 0.5/1.0/2.0 % reading

Repeatability: 100 of reading

Resolution: 1/5 micro count or optional and may be altered based on time behaviour of signal

Linearity adjustment: upto 100 count

Input impedance: ultra high (<100 giga ohm),

Filtering: low pass (adjustable)

Offset: variable upto 10,000 Ph s (manual/auto)

CMMR: >80 db at 50-60 Hz

Isolation: > 100 giga ohm

Connector: BNC-9 pinx2 and BNC-25 pinx2

Size: 8X8x12 inches/rack mounted or portable

Interface: RS-232

Option: ADDITIONAL SOFTWARE to plot V/I OR ANY DESIRED INFERENTIAL PARAMETER./ SPECIFICATIONS OR PART THERE OF MAY BE MODIFIED TO MEET ANY TAILOR MADE SOLUTIONS.

NOTES: The numeral after product code indicates the ( ampere meter) range and last digit corresponds to size (5x5x8, 8x8x12)

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