

## Microprocessor pH ORP Controller



**DPH 513** is a full featured pH / ORP Controller, ideal for Batch and Semi-Continuous Processes that require "Critical Control" using only minimum dosing reagents to Control pH.

Its a unique "Mark Space" (Shot & Delay) Control Algorithm which adapts to any process dynamics and maintains extremely tight control with absolute minimum quantity of reagent dosing requirement.

"Automated Electrode Cleaning" program for trouble free operation.

#### **FEATURES**

**Temperature** 

- Microprocessor based, Real Time Fault Tolerant Design.
   User Selectable pH or ORP Control Mode
   Advanced Signal conditioning provides exceptionally stable reading which adapts to virtually any Titration curve.
   Extremely tight pH control with fast response. Ideally suited for long duration and critical Fermentation and Batch processes.
   Simple ON / OFF Control elements used which are low cost & easy to maintain
   User selectable NIST or US Buffer set for Calibration
   Powerful, 3 Point Sofware Calibration with Automatic Buffer recognition and Buffer pH Compensation for
- □ "Electrode Condition Monitoring" with warnings for poor electrode condition.
- ☐ Digital input for "Control Halt" from PLC or other Process Automation & Control System
- ☐ Available in Weatherproof IP65 or Flameproof Enclosures

## **GLOBAL ELECTRONICS**

3-5-331, NARAYANGUDA, HYDERABAD - 500029 INDIA

### **SPECIFICATIONS**



Display : 7 Digit, High Brightness 7 Segment LED Display

with 11 Annunciator LED's

Display : 4 Digits for pH / mV, 3 Digits for Temp.

And all 7 for Msgs.

Annunciators for ATC, MTC, °C, RD, pH, mV

	рН		mV	Temp			
Measurement Range	:	-2.00 to 15.99	±1999	-50°C to +200°C			
Resolution	:	0.01	1	0.1 (-19.9 to 99.9)			
Accuracy	:	0.1%±1 digit	0.1%±1 digit	0.1%±1 digit			
Reproducibility	:	0.01	1	0.1			
Temperature Compensation	: Manual / Automatic -30 to 150°C (RTD PT100)						
Input Impedance	: > 10 Tera Ohms						

Input Impedance : > 10 Iera Ohms
Input Bias Current : < 1 pA @ 25°C

AP Range : ± 75 mV

Slope: : 75% to 125%

Programming : Through user friendly keyboard and Prompting Dispaly Calibration : **pH** : 2 or 3 Point Calibration using any of the following :

USA: 4.01, 7.00 Buffers or NIST: 4.01, 6.86 \* 9.18 Buffers

**Temperature**: Single and Two Point at any Temperature

Control Limits : 6 Programmable limitsfor pH / ORP Mode & 1 Hi Temperature Limit.

Control : **Dual Mark Space Control** with Relay outputs for Hi, Lo relays @ 230 V AC,

3A for resistive Load.

Output : RS485 (MODBUS)

Operating Temperature : -10 to + 45 °C

Power :  $110 / 230V \pm 45$  to 55Hz, 10 VA

Dimensions : Panel Mount :96 (W) x 96 (H) x 150mm (D

Wall Mount : 200 (W) x 200 (H) x 150mm (D) Flameproof : 250 (W) x 250 (H) x 200mm (D)

# AUTHORISED DISTRIBUTORS FOR VAN LONDON PHOENIX ELECTRODES, USA

DATA AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

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