



## Single or Dual Input Laboratory or Industrial Benchtop Controllers for pH or ORP

### MDS30 Series

1 YEAR  
WARRANTY

- ✓ Ideal for Laboratory or Industrial Uses
- ✓ Single or Dual Channel Models
- ✓ Independent Inputs and Outputs
- ✓ Simultaneous Recorder Outputs



MDS38-PH-ORP shown smaller than actual size. Shown with two PHE-6510 series electrodes and mounting assembly, PHEH-65-10 sold separately.

The MDS30 Series is a high performance microprocessor-based benchtop single or dual input controller which offers the flexibility to customize control options. Each unit features automatic temperature compensation, two 6 Amp mechanical relays per controller, and independent programmable 4 to 20/0 to 20 mA or 0 to 10 V recorder outputs. For ease of operation all calibration and parameter setpoints are programmable through the front keypad. The MDS38 also features two large easy-to-read 13.7 mm (0.54") displays, and can be interfaced with a large variety of Industrial or laboratory pH/ORP electrodes and in-line or submersible conductivity sensors.

The MDS37 series features single input and output for pH or ORP. The MDS38 series features a choice of two independent inputs for controlling pH, or ORP. Mix and match the controller inputs to match your specific parameters. The recorder output feature for both series allows the user to interface the controller directly into a wide variety of process recorders and Data Acquisition systems for permanent recording of process parameters.

### Specifications (Common)

**Power:** 115 Vac; 230 Vac optional

**Relays:** Two SPDT (form C) 6 A at 240 Vac

**Recorder Output:** Programmable, 4 to 20 mA/0 to 20 mA, or 0 to 10 Vdc

### Specifications (pH Controller)

**Range:**

**pH:** 0 to 14.00 pH

**Temperature:** 0 to 100°C

**Display:** 4-digit, red LED, 13.7 mm (0.54")

**Resolution:** pH 0.01; Temperature: 0.1°C

**Accuracy:** pH  $\pm 0.01$ ; Temperature:  $\pm 0.5^\circ\text{C}$

**Input Impedance:** Greater than  $10^{12}\Omega$

**Temperature Compensation:**

**Manual or Automatic using Pt 100 RTD:**

**Connections:** pH-BNC; temperature compensation-mini phone plug

### Specifications (ORP Controller)

**Range:**  $\pm 2$  Vdc

**Display:** 4-digit, red LED, 13.7mm (0.54")

**Resolution:** 0.1, 1 mV

**Accuracy:**  $\pm 0.1$  mV @ 25°C

**Connectors:** BNC

Input Code	Range	Description
PH	0 to 14 pH; 0 to 100°C	pH controller with temperature compensation
ORP	$\pm 2$ Vdc	ORP controller

To Order	
Model No.	Description
MDS37-(*)	Single input, benchtop controller with recorder output
MDS38-(*)-(*)	Dual input, benchtop controller with recorder output

\* Specify input code "PH" for pH controller, or "ORP" for ORP controller.

For 230 Vac power, add "-230" suffix to model number, no additional charge.

**Ordering Examples:** MDS38-PH-ORP, benchtop PH and ORP controller

MDS37-PH, single input, benchtop pH controller.