

# Hand Held Digital pH Meter Model HH4-PH

## Measures pH, millivolts and temperature

### Features

- Pushbutton calibration and setup
- Displays pH to 0.01
- Displays millivolts to 1mV
- Displays temperature to 0.1°
- Displays pH electrode slope
- Automatic or manual temperature compensation for pH
- Digital filter improves stability
- Display hold button
- Rugged construction
- Automatic low battery indication
- 9V 216 type battery supplied
- Padded carry case (optional)
- Programmable auto turn off
- 2 year guarantee

### Wide range of Electrodes

- Standard gel filled low cost lab probe
- Intermediate junction electrode
- Replaceable cartridge electrodes



The Intelligent HH4-PH Hand Held Digital pH meter is designed and manufactured to provide a rugged and reliable instrument for industrial and laboratory applications.

The HH4 Digital pH meter is intelligent yet simple to operate. The instrument may be cycled between pH, millivolts and temperature simply by the push of a button. A hold pushbutton allows the display to be held at the current reading for taking notes and logging purposes. Calibration is simplified by a pushbutton sequence which allows a single point or two points to be entered into the calibration memory. The non volatile memory stores the previous buffer values making future calibrating even faster. A unique display of the electrode slope allows you to monitor the condition of the pH electrode.

The programmable digital filter improves stability by smoothing out short term interference - often associated with induced cable noise when stirring liquids. An automatic *switch off* function has been integrated into the design to switch the instrument off after a programmable preset time period - thus increasing the battery life.

### Specifications

pH input:	Any electrode where $E^0=7$
pH range:	0.00 pH to 14.00 pH
millivolt input:	-2V to 2V nominal
millivolt range:	-1999mV to 2000mV
Temperature input:	LM335 semiconductor sensor
Temperature range:	-50 to 150°C or -60 to 300°F
Temperature units:	Selectable °C or °F
Accuracy:	Better than 0.2% of FS (pH)
Conversion method:	Dual slope ADC, 4 samples per second
Microprocessor:	MC 68HC05C8 CMOS
Ambient temp:	0 to 50°C
Humidity:	5 to 95% non condensing
Display:	LCD 4 digit 12.7mm
Battery:	9V 216 type battery (Alkaline recommended)

Quiescent current:	10uA maximum
Operating current:	10mA maximum

#### PHYSICAL CHARACTERISTICS:

Connections:	BNC electrode socket 2mm socket for separate reference 3.5mm temperature probe socket
Weight:	250 gms including battery
Case size:	80mm (W) x 145mm (L) x 32 to 39mm (D)

#### ORDER CODE

HH4-PH

#### OPTIONS

CASE- HH-1 (Padded carry case standard size 170 x 130 x 45mm to suit HH4-PH and 12mm lab electrode)