

# HI 8424

## Microprocessor-based with ATC & Automatic Buffer Recognition

The same performance of a top-of-the-line microprocessor bench meter, can also be obtained with the **HI 8424** portable pH meter, one of the most popular pH meters on the market. By utilizing an advanced, custom microprocessor, **HI 8424** is able to perform pH, ORP, ISE and temperature measurements with high accuracy and fast response. The mV measurements automatically switch from 0.1 to 1mV resolution when the reading reaches 400mV. Temperature effects are automatically or manually compensated for,

from 0 to 100°C (32 to 212°F). The meter has **three memorized buffer values (pH 4.01, 7.01, 10.01)**, and automatic buffer recognition to avoid errors during calibration. To make calibration even easier, the calibration trimmers have been removed and calibration is now performed at the push of a button.

As an accessory, the **HI 721312** is available. The kit includes a rugged carrying case with pH 4.01 and pH 7.01 buffer solutions.

- **0.1 mV Resolution**

Necessary for ion selective electrodes. The first portable pH meter launched on the market with this resolution.

- **Automatic Buffer Recognition**

The meter will automatically recognize pH 4.01, 7.01 and 10.01 buffers and calibrate to them.

- **Simple Two-Point Automatic Calibration**

Calibration is through the membrane keypad with the data stored in the memory which retains it, even when the meter is switched off.

- **3 Meters in 1**

pH, mV and temperature are all measured with lab-grade accuracy by **HI 8424**.

### SPECIFICATIONS

		HI 8424
RANGE	pH	0.00 to 14.00
	mV	0.0 to ±399.9 (ISE); ±400 to ±1999 (ORP)
	°C	0.0 to 100.0
RESOLUTION	pH	0.01
	mV	0.1 (ISE); 1 (ORP)
	°C	0.1
ACCURACY (@20°C/68°F)	pH	±0.01
	mV	±0.2 (ISE); ±1 (ORP)
	°C	±0.4
TYPICAL EMC DEVIATION	pH	±0.02
	mV	±0.2 (ISE); ±1 (ORP)
	°C	±0.4
pH CALIBRATION	Automatic 2 points with 3 memorized standard buffers (pH 7.01, 4.01 or 10.01)	
OFFSET CALIBRATION	±1.0 pH	
SLOPE CALIBRATION	From 70 to 108%	
TEMPERATURE COMPENSATION	Automatic from 0 to 100°C (32 to 212°F) or manual without temperature probe	
ELECTRODE	HI 1230B combination gel-filled double-junction pH electrode with BNC & 1 m (3.3') cable (included)	
TEMPERATURE PROBE	HI 7669AW with 1 m (3.3') screened cable (included)	
INPUT IMPEDANCE	10 <sup>12</sup> ohm	
BATTERY TYPE / LIFE	1 x 9V / 100 hours approx. continuous use	
ENVIRONMENT	0 to 50°C (32 to 122°F); RH 95%	
DIMENSIONS	185 x 82 x 45 mm (7.3 x 3.2 x 1.8")	
WEIGHT	520 g (1.1 lb.)	

### HOW TO ORDER

**HI 8424** is supplied complete with **HI 1230B** combination gel double-junction pH electrode with BNC and 1 m (3.3') cable, **HI 7669AW** temperature probe with 1 m (3.3') screened cable, 9V battery and instruction manual

### ACCESSORIES

<b>HI 710001</b>	Soft carrying case
<b>HI 1230B</b>	Combination pH electrode
<b>HI 7004L</b>	pH 4.01 buffer solution, 460 mL
<b>HI 7007L</b>	pH 7.01 buffer solution, 460 mL
<b>HI 7010L</b>	pH 10.01 buffer solution, 460 mL
<b>HI 70300L</b>	Storage solution, 460 mL
<b>HI 77400P</b>	Cal. kit (pH 4 & 7, 20 mL, 5 pcs each)
<b>HI 76405</b>	Electrode holder
<b>HI 7669AW</b>	Temperature probe

<b>HI 721312</b>	Rugged carrying case
<b>HI 8427</b>	pH and ORP electrode simulator
<b>HI 931001</b>	pH and ORP electrode simulator
<b>HI 710009</b>	Blue rubber boot
<b>HI 710010</b>	Orange rubber boot

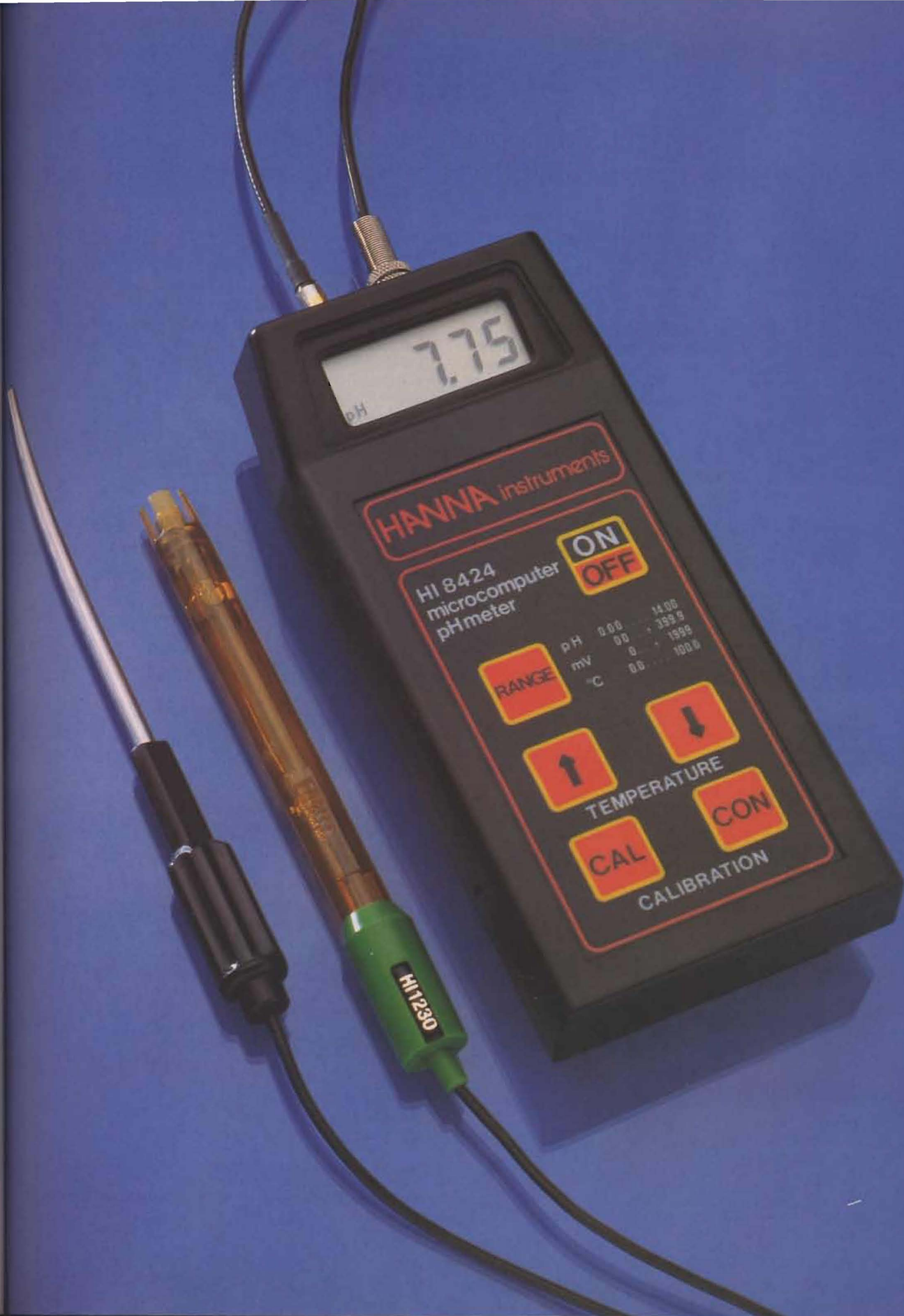
For a complete range of calibration and maintenance solutions as well as pH and ORP electrodes see sections G and F. For a comprehensive list of accessories, see section R.

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