HI 84433

Formol Number Mini Titrator and pH Meter for Wines and Fruit Juices

 Data logging Log on demand up to 100 total samples

- · GLP features
- Eliminates subjective factors
- Can measure in units of meq/L, meq% or mg/L
- · Three point calibration
- Automatic pH temperature compensation
- Automatic "anytime" help

· Intuitive user interface



The HI 84433 is an easy to use automatic mini titrator and pH meter designed for the rapid and accurate determination of formol number in wines or fruit juices. By eliminating subjective factors including color indicators, errors in mathematical calculations or erratic titrant additions from the measurement, the HI 84433 makes formol number determination precise.

A clear and intuitive user interface allows users to navigate the HI 84433's menus and functions quickly. A HELP key located on the keypad aids in set-up, calibration status and troubleshooting.

After an initial sample prep, the HI 84433 starts pump operation and titrates the sample to the endpoint. This instrument employs a powerful and effective algorithm to analyze the pH response to determine the exact pH endpoint, then uses this algorithm to make the necessary calculations.

The formol number determination is instantaneously displayed in selected measurement units on the large dot matrix display. The instrument is ready for the next analysis immediately.

All-in-One

Formal Number Titrator,

pH Meter, pH Electrode

and Magnetic Stirrer

The HI 84433 employs a simple peristaltic pump to ensure the best accuracy and repeatability in measurements. To ensure the most consistent results, pump calibrations can be performed with the provided HANNA standard.

The HI 84433 has two operating options:

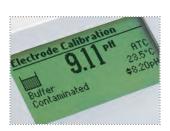
- 1) pH measurement using the meter in pH mode.
- Formol number determination by titration of wines and fruit juice samples with sodium hydroxide solution to an 8.2 pH endpoint. (Note: sample step prep required)





Clear, accurate measurements

Measurement results as well as electrode condition are clearly displayed on the LCD.



Resolution

Principle

Pump Debit

Stirring Speed

Logging Data

Resolution

Range

Titrator

pH Meter

Temperature

Electrode

Accuracy (@25°C/77°F)

Accuracy (@25°C/77°F)

Titration Method



Setup configuration menu

Accessed from pH or Titration screens, this menu allows parameters such as date formats, measurement units and language selection to be configured quickly and easily.





Log and recall data

Measurements along with time and date can be stored and recalled at a later date.



Calibration reminder

When calibration is required or due, users are reminded on screen.

The HI 84433 can also display when pump and electrode calibration was last performed.

Calibration warnings

For the most accurate performance, The HI 84433 warns users if there are errors in the calibration process. HI 84433 pinpoints the problem and displays the appropriate error message. This takes the guesswork out of diagnosing errors such as dirty or broken electrodes or contaminated buffers.

Other calibration warnings include: wrong buffer temperature, wrong slope (high and low) and wrong buffer.

SPECIFICATIONS	HI 84433

meq/L as N: 2.5 - 50.0 meq/L

Range meq% as N: 0.25 - 5.00 meq%

mg/L (ppm) as N: 70 - 1400 mg/L (ppm)

0.1 meq/L 0.01 meq%

> 1 mg/L (ppm) 5% of reading

acid-base titration

endpoint titration: 8.20 pH

0.5 mL/min

600 rpm up to 50 samples

-2.0 to 16.0 pH / -2.00 to 16.00 pH

0.1 pH / 0.01 pH

±0.01 pH

Calibration one, two or three calibration points; three available buffers (4.01; 7.01; 8.20)

Temperature Compensation manual or automatic from -20 to 120°C (-4 to 248°F)

Logging Data up to 50 samples

Range -20.0 to 120.0°C (-4.0 to 248.0°F) **Resolution** 0.1°C

Accuracy (@25°C/77°F) ±0.4°C without probe error

HI 1131B glass body pH electrode with BNC connector

and 1 m (3.3') cable

Temperature ProbeHI 7662-M stainless steel temperature probe with 1 m (3.3') cable(included)Environment0 to 50°C (32 to 122°F); RH max 95% non-condensingPower Supply12 VDC adapter (included)Dimensions208 x 214 x 163 mm (8.2 x 8.4 x 6.4") (with beaker)

Weight 2200 g (77 oz.)

ORDERING INFORMATION

HI 84433-01 (115V) and HI 84433-02 (230V) are supplied with HI 1131B pH electrode, HI 7662-M temperature probe, HI 84433-50 low concentration titrant solution (100 mL), HI 84433-51 pH adjustment solution (100 mL), HI 84433-55 pump calibration solution (100 mL), HI 84433-60 Formol base reagent (100 mL), HI 70004 pH 4.01 buffer solution sachets (2), HI 70007 pH 7.01 buffer solution sachets (2), HI 700082 pH 8.20 buffer solution sachets (2), 100 mL beakers (2), tube set with dispensing tip (2), magnetic stir bars, medium (2), 12 VDC adapter and instruction manual.

REAGENTS

HI 84433-50 Titrant solution, low concentration, 100 mL

HI 84433-51 pH adjustment solution, 100 mL

HI 84433-55 Pump calibration solution, 100 mL HI 84433-58 Additional reagent, 30 mL

HI 84433-60 Formol base reagent, 230 mL

HI 84433-70 Reagents kit

SOLUTIONS

pH 4.01 buffer solution, 230 mL
pH 7.01 buffer solution, 230 mL
pH 8.20 buffer solution, 230 mL
Electrode storage solution, 230 mL
Electrode cleaning solution, 230 mL
Red wine decolorization kit (25 pcs)

OTHER ACCESSORIES

 HI 70483T
 Tube set, cap and tip for titrant bottle

 HI 731319
 Stir bar 25 x 7 mm (10)

 HI 731342
 2000 μL fixed volume pipette for

automatic dosage **HI 731341** 1000 µL fixed volu

1000 µL fixed volume pipette for automatic dosage

