

HI 84437

## Titratable Acidity Mini Titrator and pH Meter for Mayonnaise

- No filtering, just mix and titrate
- Data logging  
Log on demand up to 100 total samples
- GLP features
- Eliminates subjective factors
- Can measure in % or g/L acetic acid
- Three point calibration
- Automatic pH temperature compensation
- Automatic “anytime” help
- Intuitive user interface

All-in-One Mayonnaise  
Titrator, pH Meter, pH  
Electrode and  
Magnetic Stirrer



The HI 84437 is an easy to use automatic mini titrator and pH meter designed for the rapid and accurate analysis of titratable acidity in mayonnaise. By eliminating subjective factors including color indicators, errors in mathematical calculations or erratic titrant additions from the measurement, the HI 84437 makes titratable acidity analysis precise. This instrument will quickly become a valuable tool for mayonnaise analysis.

A clear and intuitive user interface allows users to navigate the HI 84437's menus and functions quickly. A HELP key located on the keypad aids in set-up, calibration status and troubleshooting.

Simply weigh the sample, dilute with water and press start. The HI 84437 automatically stirs the sample, starts pumps operation

and titrates the sample to the endpoint.

The instrument employs a powerful and effective built-in algorithm to analyze the pH response to determine the exact pH endpoint, then uses this to make the necessary calculations.

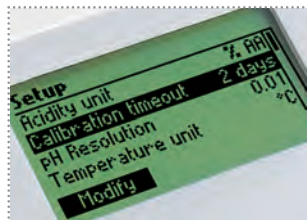
Titratable acidity determination is instantaneously displayed in the selected measurement unit on the display. The instrument is then immediately ready for the next analysis .

The HI 84437 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.



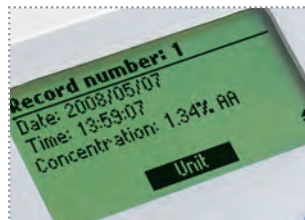
**Clear, accurate measurements**

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



**Set up 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**

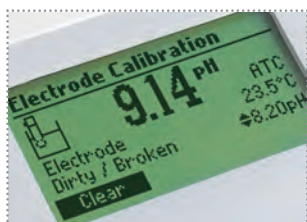
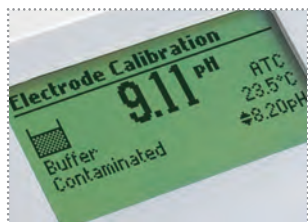
Measurements along with time and date can be stored and recalled at a later date.



**Calibration reminder**

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

The HI 84437 can also display when pump and electrode calibration was last performed.



**Calibration warnings**

For the most accurate performance, The HI 84437 warns users if there are errors in the calibration process. HI 84437 pinpoints the problem and displays the appropriate error message taking the guesswork out 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 84437
Titrator	Titratable Acidity Range	g/100 g as acetic acid : 0.16 - 1.60% AA g/L (ppt) as acetic acid : 1.6 - 16.0 g/L (ppt) AA
	Resolution	0.01% AA 0.1 g/L (ppt) AA
	Accuracy (@25°C/77°F)	5% of reading
	Titration Method	acid-base titration
	Pump Debit	0.5 mL/min
	Stirring Speed	700 rpm
	Logging Data	up to 50 samples
pH Meter	Range	-2.0 to 16.0 pH / -2.00 to 16.00 pH
	Resolution	0.1 pH / 0.01 pH
	Accuracy (@25°C/77°F)	±0.01 pH
	Calibration	one, two or three calibration points; 3 available buffers (4.01; 7.01; 8.20)
	Temperature Compensation	manual or automatic from -20 to 120°C (-4 to 248°F)
Temperature	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	
Electrode	HI 1131B glass body pH electrode with BNC connector and 1 m (3.3') cable	
Temperature Probe	HI 7662-M stainless steel temperature probe with 1 m (3.3') cable(included)	
Environment	0 to 50°C (32 to 122°F); max 95% RH non-condensing	
Power Supply	12 VDC adapter (included)	
Dimensions	208 x 214 x 163 mm (8.2 x 8.4 x 6.4") (with beaker)	
Weight	2200 g (77 oz.)	

**ORDERING INFORMATION**

HI 84437-01 (115V) and HI 84437-02 (230V) are supplied with HI 1131B pH electrode, HI 7662-M temperature probe, HI 84437-50 titrant solution (100 mL), HI 84437-55 pump calibration solution (100 mL), HI 7004M pH 4.01 buffer solution (230 mL), HI 7007M pH 7.01 buffer solution (230 mL), HI 70082M pH 8.20 buffer solution (230 mL), 100 mL beakers (2), tube set with dispensing tip, medium magnetic stir bars (2), 12 VDC adapter and instruction manual.

**REAGENTS**

- HI 84437-50 Titrant solution, 100 mL
- HI 84437-55 Pump calibration solution, 100 mL
- HI 84437-70 Reagents kit (about 150 titrations)

**SOLUTIONS**

- HI 7004M pH 4.01 buffer solution, 230 mL
- HI 7007M pH 7.01 buffer solution, 230 mL
- HI 70082M pH 8.20 buffer solution, 230 mL
- HI 70300M Electrode storage solution, 230 mL
- HI 7061M Electrode cleaning solution, 230 mL
- HI 7077M Cleaning solution for oil and fats, 230 mL
- HI 7071 Filling solution for HI 1131B, 30 mL (4)

**OTHER ACCESSORIES**

- HI 70483T Tube set with 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 731352 Tip for 2000 µL fixed volume pipette (4)