

HI99162

pH / Temperature Meter for Milk

with Application Specific Probe

- Simultaneous pH and temperature measurements on a large dual-line LCD display
- User-friendly two button design
- Application specific probe
- Durable IP67 waterproof casing
- Watertight probe connection
- Probe condition indicator
- Automatic pH calibration at one or two points within two memorized buffer sets (standard or NIST)
- On-screen calibration tags
- mV measurement for electrode check
- Selectable temperature unit (°C or °F)
- Auto-off function
- Battery life indication and low battery detection

HI99162 is a portable pH and temperature meter designed specifically for pH measurement in milk. The measurement of pH in milk is important in testing for impurities, spoilage, and signs of infection. Fresh milk has a pH value close to pH 6.7. When the pH value of milk falls below pH 6.7, it typically indicates spoilage by bacterial degradation. Milk with pH values higher than pH 6.7 potentially indicate that milk may have come from cows with a mastitis infection.

The FC1013 pH electrode has a built-in temperature sensor for simultaneous temperature compensated pH and temperature readings, and also contains a pH sensor preamplifier to provide measurements impervious to noise and electrical interferences.

FC1013 electrode has a PVDF body, double junction reference with refillable bridge electrolyte and ceramic junction.

The HI99162 and FC1013 provide measurements where your milk is processed to optimize operations.



Specifications

HI99162

pH	Range*	-2.00 to 16.00 pH / -2.0 to 16.0 pH
	Resolution	0.01 pH / 0.1 pH
	Accuracy (@25°C/77°F)	±0.02 pH / ±0.1 pH
	Calibration	Automatic, one or two-point selectable bufferset standard: 4.01; 7.01; 10.01 or NIST: 4.01; 6.86; 9.18
pH-mV	Range*	±825 mV
	Resolution	1 mV
	Accuracy (@25°C/77°F)	±1 mV
Temperature	Range*	-5.0 to 105.0°C; 23.0 to 221.0°F
	Resolution	0.1°C; 0.1°F
	Accuracy (@25°C/77°F)	±0.5°C (up to 60°C), ±1.0°C (outside); ±1.0°F (up to 140°F), ±2.0°F (outside)
Additional Specifications	Temperature Compensation	automatic, from -5.0 to 105.0°C (23.0 to 221.0°F)
	Probe (included)	FC1013 preamplified pH and temperature probe, DIN connector and 1 m (3.3') cable
	Battery Type / Life	1.5V AAA (3) approx. 1400 hours of continuous use
	Auto-off	user selectable: after 8 min, 60 min or disabled
	Environment	0 to 50°C (32 to 122°F); RH max. 100%
	Meter Dimensions	154 x 63 x 30 mm (6.1 x 2.5 x 1.2")
	Meter Mass (with batteries)	196 g (6.91 oz.)
	Case Ingress Protection Rating	IP67
Ordering Information	<p>HI99162 is supplied with FC1013 preamplified pH/temperature probe with Quick Connect DIN connector and 1 m (3.3') cable, pH 4.01 and 7.01 buffer sachets, HI700640 electrode cleaning solution sachet for milk deposits (2), 100 mL beaker, 1.5V AAA batteries (3), calibration certificate of meter, calibration certificate of probe, instruction manual, and HI710142 rugged carrying case.</p>	

* the FC1013 is limited to be used from 0 to 13 pH and from 0 to 80 °C temperature (32 to 176 °F).

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