



HI 99163 is a specific instrument for the pH analysis of meat products. The specially designed electrode FC 232D incorporates many essential features to perform reliably without damaging the sample. This probe has a built-in temperature sensor that provides automatic temperature compensation, an open junction to avoid a clogged reference and its external body material isn't toxic.

The probe body has an external thread to securely screw on the stainless steel penetration blade FC 099, included in the kit. The replaceable penetration blade allows the user to measure not only the surface, but also the internal pH of the meat.

This pH meter is simple to use with only 2 buttons. All necessary information is clearly displayed on the LCD.

Besides displaying pH and temperature, the LCD of the HI 99163 also indicates the reading stability, as well as the remaining battery charge.

Calibration is automatic at 1 or 2 points, selectable between 2 memorized buffer sets.

Battery life is more than 1500 hours and the instrument automatically turns off after 8 minutes of inactivity.

### Specifications

HI 99163		
Range	pH	-2.00 to 16.00 pH
	Temperature	-5.0 to 105.0°C / 23.0 to 221.0°F
Resolution	pH	0.01 pH
	Temperature	0.1°C / 0.1°F
Accuracy (@20°C)	pH	±0.02 pH
	Temperature	±0.5°C (up to 60°C), ±1°C (outside) ±1.0°F (up to 140°F), ±2°F (outside)
pH Calibration	automatic, 1 or 2 point with 2 sets of memorized buffers (pH 4.01/7.01/10.01 or 4.01/6.86/9.18)	
Temperature Compensation	automatic, -5 to 105°C (23 to 221°F)	
pH Electrode	FC 232D, amplified, food compatible body material, built-in temperature sensor, thread for blade insertion (included)	
Battery Type / Life	3 x 1.5V AA / approx. 1500 hours of continuous use; auto-off after 8 minutes of non-use	
Environment	0 to 50°C (32 to 122°F); RH max 100%	
Dimensions / Weight	150 x 80 x 36 mm (5.9 x 3.1 x 1.4") / 210 g (7.4 oz.)	

### Accessories

FC 232D	Amplified pH electrode with food compatible body, internal temperature sensor, thread for blade insertion	HI 7010L	pH 10.01 buffer solution, 500 mL bottle
FC 098	20 mm stainless steel blade for FC 232D electrode	HI 700630P	Acid cleaning solutions for meat grease and fat, 20 mL sachet, 25 pcs.
FC 099	35 mm stainless steel blade for FC 232D electrode	HI 700631P	Alkaline cleaning solutions for meat grease and fat, 20 mL sachet, 25 pcs.
HI 7004L	pH 4.01 buffer solution, 500 mL bottle	HI 710007	Shockproof rubber boot, blue
HI 7007L	pH 7.01 buffer solution, 500 mL bottle	HI 710008	Shockproof rubber boot, orange

### Ordering Information

HI 99163 is supplied complete with FC 232D pH electrode, FC 099 stainless steel blade, pH 4 and pH 7 buffer sachets, HI 700630 cleaning solution (2 x 20 mL), batteries, rugged carrying case and instructions.

For a complete range of calibration, cleaning and maintenance solutions, see section F. For pH and ORP electrodes, see section E. For accessories, see section U.