

# PH METER

Model : pH 705

**TEGPEL**

## FEATURES

* Microprocessor circuit assures maximum possible accuracy, provides special functions and features.	* Wide automatic & manual temperature compensation range.
* Super large LCD display with contrast adjustment for best viewing angle.	* The values of "Manual temp. compensation" are reading from the LCD display directly, no errors & easy operation .
* Dual function meter's display.	* With the optional temp. probe for automatic temp. compensation or temp. measurement.
* Heavy duty & compact housing case, designed for easy carry out & operation.	* The instrument build in mV ( milli volt ) measuring function, useful for making ion-selective, ORP, and other precise mV measurement.
* Records Maximum, Minimum and Average readings with RECALL.	* Built in SLOPE ( PH 4 ) & CAL. ( PH 7 ) calibration VR on the front panel, easy for single point or two points pH calibration, calibration data will keep into no erasable memory IC.
* DATA HOLD function to freeze the desired value on display.	* Wide applications: water contioning, aquariums, beverage, fish hatcheries, food processing, photography, laboratory, paper industry, plating industry, quality control, school & college, water conditioning.
* Auto shut off saves battery life.	
* RS 232 PC serial interface.	
* Built-in low battery indicator.	
* Multi-measurement : pH, mV, Temperature.	
* Temperature function for °C or °F be selected by push button on front panel easily.	
* Dual display, show the pH & temperature values at the same LCD display.	
* High input impedance avoid measuring error.	

## GENERAL SPECIFICATIONS

Circuit	Custom one-chip of microprocessor LSI circuit.	Power off	Auto shut off saves battery life, or manual off by push button.
Display	Dual function meter's display, 13 mm ( 0.5" ). Super large LCD display with contrast adjustment for best viewing angle.	Data Output	RS 232 PC serial interface.
Measurement	PH	0 to 14 pH	Over input indication
	mV	0 to 1999 mV	Indication of " - - - - ".
	Temperature	0 to 65 °C 32 to 150 °C	pH Electrode
Input Impedance	10 12ohms.	Operating Temperature	Any combination pH electrode with BNC connector. 0 °C to 50 °C ( 32 °F to 122 °F ).
Temperature Compensation	Manual 0 to 100 °C, adjusting by push button on front panel.	Operating Humidity	Less than 80% RH.
For pH Range	Automatic With the optional TEMP. probe, 0 to 65 °C.	Sampling Time	Approx. 0.8 second.
Calibration For pH Range	Built in SLOPE ( PH 4 ) & CAL. ( PH 7 ) calibration VR ( multi-turns potentiometers ) on front panel, high reliability.	Power Supply	Heavy duty type, 006P DC 9V battery MN1604 ( PP3 ) or equivalent.
Data hold Memory Recall	To hold the reading values on display. Records Maximum, Minimum and Average readings with RECALL.	Power Current	Approx. DC 5.7 mA.
		Weight	270 g/0.59 LB .
		Size	180 x 72 x 32 mm ( 7.1 x 2.8 x 1.3 inch ).
		Standard Accessories	Instruction manual..... 1 PC.
		Optional Accessories	Carrying case. pH electrode, PE-01. PE-11. pH electrode, PE-03. ATC temp. probe, TP-07. pH4 buffer solution, PH-04. pH7 buffer solution, PH-07.

## ELECTRICAL SPECIFICATIONS (23 ± 5 °C)

Measurement	PH	mV	Temp. ( °C )	Temp. ( °F )
Range	0 to 14 pH	0 to 1999 mV	0 to 65 °C	32 to 150 °F
Resolution	0.01 pH	1 mV	0.1 °C	0.1 °F
Accuracy	±(0.03 PH + 2 d)	±( 0.5% + 1 d )	0 - 50 °C :	32 - 122 °F :
			1 °C	.8 °F
			> 50 °C :	> 122 °F :
			4 °C	.2 °F

\* PH accuracy are based on after calibration, meter only.