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AMTECH INDUSTRY COMPANY LIMITED

Pen pH Meter Instruction Manual

KL-6022

Thanks for choosing our products. Please read the manual carefully before using the meter. Filing and keeping this manual for future reference. Always rinse the electrode with water and wipe the sides and tip carefully with a Kimwipe before immersing it in a new standard solution.

FEATURES

* 0.00 to 14.00 pH.	* LCD with two displays and low battery indicator.
* Pen type digital pH meter, all in one, pH electrode is included, easy for general purpose application.	* Data hold function for freezing the desired value.
* Water proof and protection.	* Auto power off without any operations after 20 mins.
* pH 4.01, pH 6.86, pH 9.18 standard solution are standard accessories.	* Microcomputer circuit, intelligent function, high accuracy.
* Easy to change the pH electrode.	* Compact size, light weight.
* Temperature measurement, °C, °F.	* Power supply by DC 1.5 V battery (LR44, BAT) x 4 PCs
* Build in temperature sensor, ATC (auto temperature compensation).	* Available for wide applications, such as aquarium, beverage, fish hatcheries, food processing, photography, laboratory, quality control, school & colleges, swimming pools, water conditions.
* Auto calibration for pH 4.01, pH 6.86 or pH 9.18 or other value.	

SPECIFICATIONS

Display	LCD, size : 20 mm x 27 mm. Consumption	
Measurement Range	pH	0.00 to 14.00 pH.
	Temp.	0 to 50 °C (32 to 122 °F).
Resolution	pH	0.01 pH.
	Temp.	0.1 °C/ 0.1 °F.
Accuracy	pH	± 0.02 pH * After calibration.
	Temp.	± 0.8 °C/ ± 1.5 °F.
Data Hold	Freeze the display reading.	
pH Calibration	pH 6.86, pH 4.01 or pH 9.18, 3 points calibration ensure the best linearity and accuracy.	
Operating Humidity	Less than 80% RH.	

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Dimension	188 x38 mm * Meter with pH electrode.
Power off	Auto power shut off to save battery life.
Weight	120 g (included electrode).

OPERATING INSTRUCTION

* Hold Feature

'**HOLD**' will be displayed during the hold mode, Press **HOLD** to freeze the current reading. Press **HOLD** again to release the hold mode.

* Automatic temperature compensation (ATC)

The product is capable of measuring with automatic temperature compensation.

'ATC' shows under **CAL** at the left corner of the screen. While the meter is off, press **HOLD** and **ON/OFF** at the same time until the '°C' or '°F' appears on the LCD. Press **CAL** to select the preferred unit and then press **HOLD** to save. 'SA' will appear on the LCD for one second and then back to normal.

* Calibration

1. Prepare 4.01 and 6.86 or 9.18 pH buffers, User 6.86 pH buffer for the mid-range buffer first. The pH values for the buffers are given for 25 °C. If the sample temperature is not 25 °C, the pH values displayed for the buffers will reflect the correct pH value for the sample temperature.
2. Press ON/OFF to turn the instrument on and press **CAL** to get into the pH calibration mode.
3. Place the pH electrode in one of the buffers. The temperature and pH values will be updated until a stable reading is reached.
4. When the reading has stabilized or been accepted, the standard number will be saved as the calibration and return to the reading mode, with press **HOLD** and Text 'SA' will be displayed as well. Otherwise, press **CAL** to quit the pH calibration mode without save any data.
 - If probe or buffer is in error, the meter will quit calibration mode automatically after 10 seconds, Text 'End' will appeared in one second and then back to normal status.
 - If the buffer is not 4.01, 6.86 or 9.18 but another value, such as 4.01, just press HOLD to change the value.
 - The adjustable calibration range for pH 4.0 is from 3.00 to 5.00, for pH 6.86 is from 5.86 to 7.86, for pH 9.18 is from 8.18 to 10.18.



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- Out of calibration range, too acidic or too alkaline, '-- --' will be displayed.
- Out of temp. Range, too cold or too hot, 'L' or 'H' will be displayed.

MAINTENANCE

Please always keep the ph glass bulb wet by using the cap to protect and store the electrode. Always rinse the ph electrode and in de-ionized water or rinse solution before next use. Never touch or rub glass bulb for lasting ph electrode life.

WARRANTY

The meter is warranted to be free from defects in material and workmanship for one year from the date of purchase. This warranty covers normal operation and does not cover battery, misuse, abuse, alteration, tampering, neglect, improper maintenance or damage resulting from leaking batteries. Proof of purchase is required for warranty repairs. Warranty is void if the meter has been opened.

WATERPROOF ILLUSTRATION

Tips:

1. Screw down ph waterproof cap.
2. Solution should not be filled over ph waterproof line, pH meter will be damaged if solution in over ph waterproof line.

