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AMTECH INDUSTRY COMPANY LIMITED

Pen pH Meter Instruction Manual

KL-6021A

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 displays
* 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.	* High accuracy.
* pH 4.01, pH 6.86 and pH 9.18 standard solution are standard accessories.	* Compact size, light weight.
* Easy to change the pH electrode.	* 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.
* Three point calibration for pH 4.01, pH 6.86 and pH 9.18	* Auto power off

SPECIFICATIONS

Display	LCD, size : 20 mm x 27 mm. Consumption	
Measurement Range	pH	0 to 14 pH.
Resolution	pH	0.1 pH.
Accuracy	pH	± 0.1 pH * After calibration.
pH Calibration	pH 4.01, pH 6.86 and pH 9.18, Three Point Calibration	
Temp. Display	0.1℃	
Temp. Accuracy	1℃	
Working Temp. Range	0 ~ 50℃	
ATC	0 ~ 100℃	

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Dimension	188 x38 mm * Meter with pH electrode.
Weight	120 g (included electrode).

OPERATING INSTRUCTION

Pull out the cap before using, Do not Screw it !

* **Hold Feature**

Press **HOLD** to freeze the current reading, and 'HOLD' will be appeared on the LCD. 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 **CAL** and **ON/OFF** at the same time until the '°C' or '°F' appears on the LCD. Press **HOLD** to select the preferred unit and then press **CAL** to save. 'SA' will appear on the LCD for one second and then back to normal.

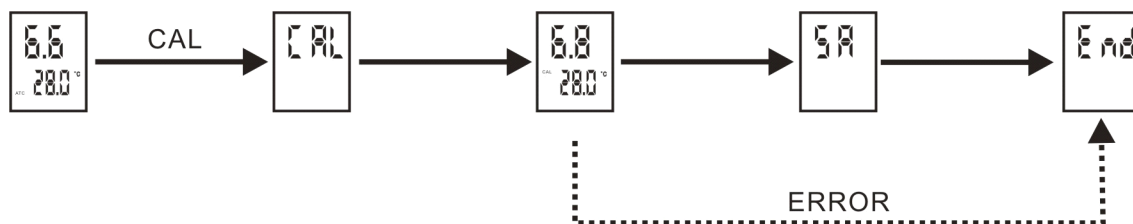
* **Calibration**

1. Prepare 6.86 pH buffers. The pH value for the buffer is given for 25 °C. If the sample temperature is not 25 °C, the pH values displayed for the buffer will reflect the correct pH value for the sample temperature.
2. Press ON/OFF to turn the instrument on and Place the pH electrode in the buffer. The pH value will be updated until a stable reading is reached, press **CAL** until the text 'CAL' appear in the display. The current pH value will displayed for 1 sec, and the pH 6.86 will be displayed then. After 2 sec, Text 'SA' will showing in the LCD denote that the current calibration result is saving. The text 'END' will be displayed at the end. If the electrode is dry, please place the electrode in the water for 30 minutes first.
3. After the calibration, Press **CAL** for 3 sec until the text 'END' appear in the display, the meter will back to normal mode.
4. Do not take the meter out from the buffer if the text 'END' is not showing, the calibration will be failed.
5. pH 4.01 and pH 9.18 calibrations are same as above.
6. 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.



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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.

