

# Digital Hydrometer

For lead acid batteries

# DH-10C

Cat.No.3446

# DH-10F

Cat.No.3447

## Specific gravity of sulfuric lead-acid battery fluid



## Single-handed operation from measurement to cleaning, without touching any liquid!

No more cumbersome cleaning. Lightweight, compact, and battery-operated for maximum portability. Ideal for hazardous or volatile sample measurements.

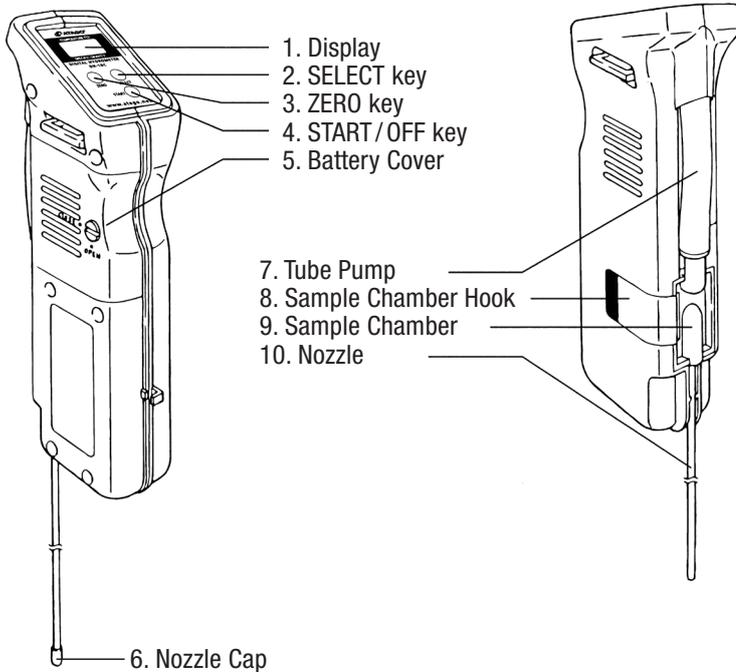
# Digital Hydrometer **DH-10C**, **DH-10F**

Cat.No.3446

Cat.No.3447

For determining the charge level of lead acid batteries commonly used as industrial battery banks.

## Names and Functions of Parts



### 1. Display

The liquid crystal display provides a digital readout of the measured values.

### 2. SELECT key

Used to select a measurement item. The item to be displayed switches between TEMPERATURE and MEASURE each time this key is pressed. (Specific gravity of electrolyte)

### 3. ZERO key

Used for zero-setting.

### 4. START / OFF key

Press to take a measurement. To turn off the instrument, press and hold down the key for 2 seconds.

### 5. Battery Cover

Remove to insert or to change the battery.

### 6. Nozzle Cap

Used to protect the tip of the Nozzle.

### 7. Tube Pump

The Tube Pump is made of rubber. Squeeze and release the Tube Pump to remove the sample.

### 8. Sample Chamber Hook

Used to hold the Sample Chamber in place.

### 9. Sample Chamber

The removed sample is stored in the Sample Chamber for measurement.

### 10. Nozzle

The sample is extracted through the Nozzle.

## Example of Time and Cost Savings

### Increased efficiency over a conventional glass hydrometer and thermometer

A service tech visits 30 power systems a month. Using a standard hydrometer, it takes him 20 minutes per system to do the job. The DH-10 Digital Hydrometer reduces the service time to 2 minutes per system.

His labor costs \$40/hour.

- **A standard glass hydrometer:**  
20 minutes × 30 sites = 10 hours, \$400 worth of labor every month
- **DH-10 Digital Hydrometer:**  
2 minutes × 30 sites = 1 hour, \$40 worth of labor every month

**The benefits are 108 hours = \$4,320 of savings every year, per service tech.**

## Specifications

	DH-10C Cat. No.3446	DH-10F Cat. No.3447
Measurement Range	Specific gravity electrolyte: 1.000 to 1.400 (Automatic Temperature Compensation)	
Resolution	0.001	
Measurement Accuracy	±0.002 (10 to 30°C) ±0.003 (0 to 10 or 30 to 40°C) ±0.005 (-10 to 0 or 40 to 50°C)	±0.002 (50 to 86°F) ±0.003 (32 to 50 or 86 to 104°F) ±0.005 (14 to 32 or 104 to 122°F)
Sample chamber temperature	-10 to 50°C	14 to 122°F
Ambient Temperature	5 to 40°C	41 to 104°F
Power Supply	006P alkaline battery (9V)	
Dimensions	70 × 40 × 210mm (not including the nozzle)	
Weight	Approx. 235g (including battery)	

All ATAGO products are designed and manufactured in Japan.

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**HACCP GMP GLP**

ATAGO products comply with HACCP, GMP, and GLP system standards.

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\* Specifications and appearance are subject to change without notice.