ENERGIC Plus®

IN CHARGE OF YOUR BATTERIES

Digital hydrometer
for lead acid batteries

Specific gravity testing is easy and efficient with this refractometer. Simply insert the nozzle into the battery and depress the finger pump, which draws a few drops of sulfuric acid (H2S04) through the tube. Within three seconds the measured refractive index is converted into a temperature compensated specific gravity reading and the specific gravity, temperature and cell count are displayed. Combining a lightweight and durable design with easy maintenance, field-replaceable spare parts and a large data storage memory; this hydrometer is the perfect tool for every lead acid battery.

Benefits

- Measures specific gravity, ambient temperature and count
- Automatic temperature compensation to 25° C
- Time savings: 5 times faster than conventional methods
- Stores up to 1000 readings
- Wirelessly transfers testing data to provide software to create an Excel report

Features

- Able to record temperature in Fahrenheit or Celsius
- ±0.002 accuracy
- LCD display
- IP64 water resistant

REF 166TA5541

How to use

1 Squeeze, Air out
Squeeze the pump to create a vacuum.

2 Release, Sample In
Release the pump to draw the sample in.

3 Easy Operation
Press the START key, and measurement is complete in 3 seconds.

4 Squeeze & Release - Easy Cleaning
Please note: it is very important to rinse well with water before putting it back in storage.

Specifications

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)
Sample chamber temperature	-10 to 50°C
Ambient Temperature	5 to 40°C
Power Supply	006P alkaline battery (9V)
Dimensions	70 × 40 × 210mm (not including the nozzle)
Weight	Approx. 235g (including battery)

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.

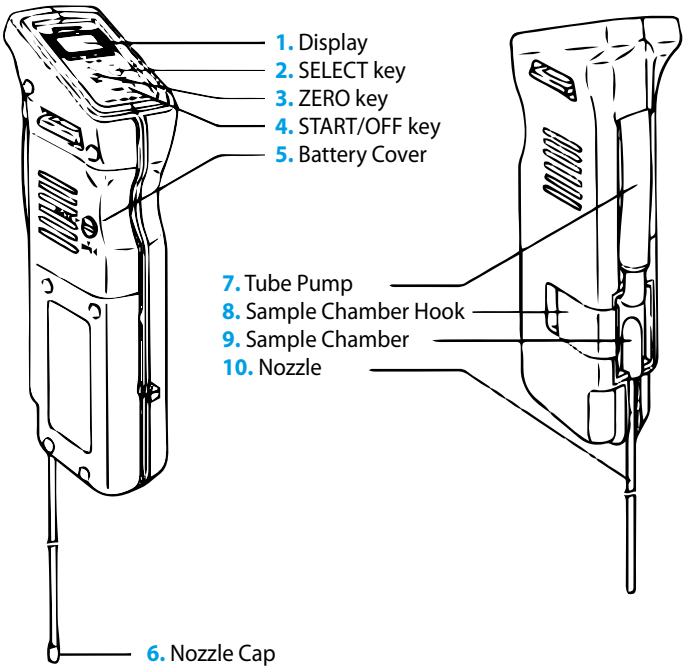
6. Nozzle Cap
Used to protect the tip of the Nozzle.

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.



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