DIGITAL HYDROMETER WITH DATA LOGGING

Technology and Solutions for Battery Testing

BENEFITS

- Accurate, handheld, digital density meter suitable for use in demanding industrial environments.
- Measure and record Specific Gravity Units and Temperature in less than 5 seconds.
- Automatically compensates the specific gravity for fluid temperature.
- Designed to be used on all manufacturers “wet” cells through corner withdrawal tubes or vent caps.

The Digital Hydrometer saves time and money by automating the collection and reporting processes for hydrometer readings. Measuring specific gravity and electrolyte temperature has always been time consuming and messy.

Fast and Easy Data Transfer

- The Digital Hydrometer with data logging interface stores up to eight strings of readings (256 readings per string) of specific gravity and acid temperature.
- Download data to Battery Analysis Software (included) for complete battery records.
- Easily interfaces with any Alber Cellcorder model from CLC to CRT.
- Serial and infrared data transfer to computer or Alber Cellcorder.

Lightweight and Durable

- Easy to use, One hand operation —
  - Dimensions: 9.7"L x 4.1"W x 5.0"H
  - Weight of only 1.5 lbs
- Splash proof membrane keypad
- Intuitive and easy to use display
- Protective carry case

Digital Hydrometer Specification:

TECHNICAL SPECIFICATIONS	
Measuring range	Density: 0 to 3 g/cm^3 Temperature: 0 to 40°C* Viscosity: 0 to 1000 mPa·s
Accuracy	Density:** 0.001 g/cm^3 Temperature: 0.2°C
Repeatability	Density: 0.0005 g/cm^3 Temperature: 0.1°C
Resolution	Density: 0.0001 g/cm^3 Temperature: 0.1°C
Operating temperature*	-10°C to 50°C (14°F to 122°F)
Supported measuring units	Density, Density at reference temperature, Specific Gravity (SG), Alcohol % v/v, Alcohol % w/w, Alcohol US (°Proof), API Gravity, API SG, API Density, °Baumé, H_2SO_4 % w/w, H_2SO_4, @ 20°C, °Brix, Extract (°Plato), five programmable custom functions
Data memory	1024 measurement results.
Power Supply	Three 1.5V LR06 AA alkaline batteries
Sample volume	2mL
Dimensions	245 x 103 x 126 mm (9.7 x 4.1 x 5.0 inches)
Weight	660g (1.5 lbs)
Interfaces	IrDA OBEX, LPT (DMA 35 Tag & Log only)
Computer interface	Half duplex RS-232C
PC downloading software	Albér Battery Analysis Software (BAS)

*Sample must not freeze within the measuring cell!

**Viscosity < 100 mPa.s, density < 2 g/cm^3

Specifications are subject to change without notice

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