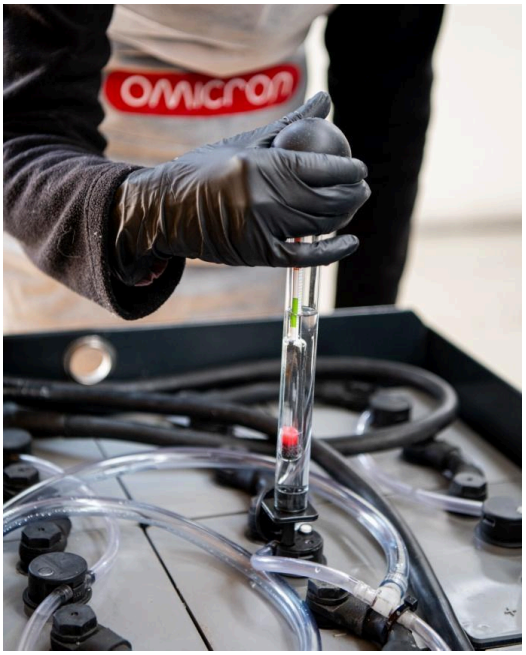
	Product Data Sheet	Technical Department
OMICRON	**DENSITY CONTROL SET** **Hydrometer + thermometer + extension tube**	

USE: LEAD-ACID BATTERIES

Scale 1.080-1.320 g/cm3, 10-35 degrees Bé, +15°C, div. 0.01 g/cm3

PRODUCT IDENTIFICATION



The hydrometer + thermometer kit is the ideal solution for accurate, complete monitoring of electrolyte condition in industrial batteries. By combining density measurement with temperature detection, it enables a more precise assessment of battery charge status and operating conditions.
Designed to ensure reliability, practicality and quick operation, the kit is an essential tool for maintenance personnel and technicians who require reliable data for efficient and safe battery management.

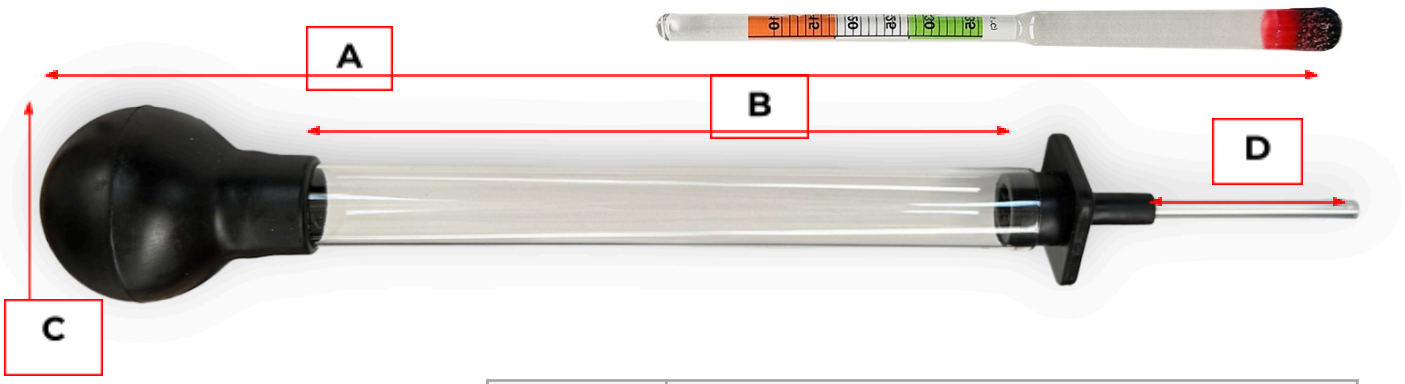
It consists of a transparent outer body designed to draw liquid from the battery and a glass float located inside the outer body. By reading the graduated scale inside the instrument, the electrolyte density can be determined.

Every component of the hydrometer and every production stage are carefully tested in our laboratories to ensure maximum precision and quality of the finished product.

The set includes:

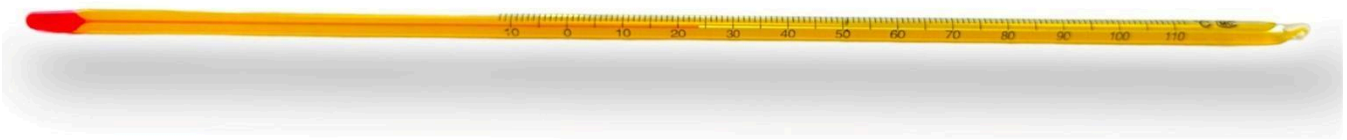
- 1 battery hydrometer 1.080-1.320 g/cm3, +15°C, 10-35 Bé, div. 0.01, +15°C
- 1 alcohol thermometer -10°C +70°C
- 1 sampling extension tube, 150/200 mm x Ø 5/6 mm

The set is packed in a cardboard case and is ready for use.



Ref	*Specifications*
A	mm 322
B	Ø mm 21,5 x mm 185
C	Ø mm 45 x mm 65
D	Ø mm 6,00 x mm 45

- **1 alcohol thermometer -10°C +70°C**



Description	*Characteristics*	*Specifications*
Structure	GLASS	300 mm x Ø 5.50/6.00 mm
Scale		-10°C +110°C, div. 1°C, partial immersion 100 mm

Description	*Characteristic*
SUCTION BULB	NATURAL RUBBER
BODY	GLASS
END CAP	BLACK PVC
NOZZLE	TRANSPARENT PVC
SAMPLING EXTENSION TUBE	TRANSPARENT PVC

Description	*Characteristic*
BODY	WHITE GLASS
SCALE 65 mm (orange, white, green)	1.080-1.320 g/cm3, 10-35 degrees Bé +15°C, div. 0.01 g/cm3

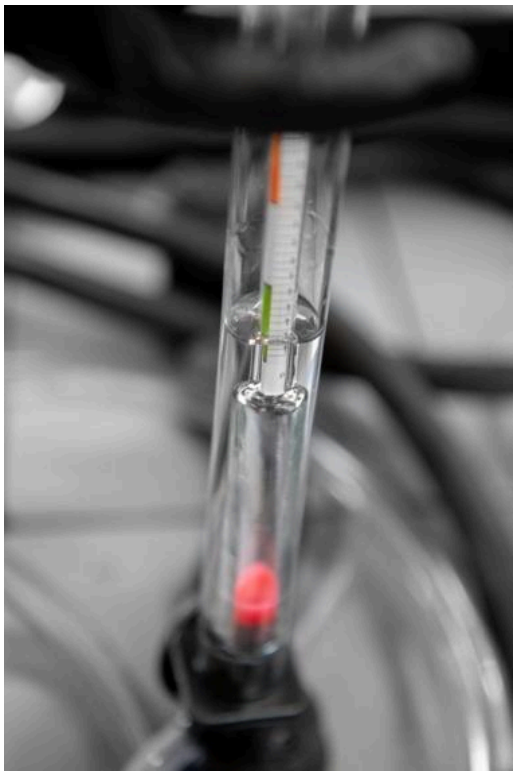
PRECAUTIONS FOR USE

The hydrometer is made of glass: HANDLE WITH CARE!

- DO NOT USE THE HYDROMETER AT TEMPERATURES ABOVE 90°C
- THE HYDROMETER CALIBRATION IS GUARANTEED FOR 6 YEARS UNDER OPTIMAL CONDITIONS
- When taking measurements, follow these precautions:

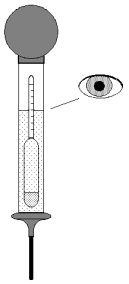
acid-resistant gloves	acid-resistant apron or coveralls	safety goggles

INSTRUCTIONS



The following instructions are provided for correct and optimal use of the product.

1) Remove the hydrometer protection from the nozzle end.
2) Insert the float into the body and close it with the end cap without using force or tools.
3) Hold the hydrometer from the upper part and keep it in a vertical position.
4) Press the bulb and draw a small amount of liquid, enough to allow the float to move. If the nozzle is too short, fit the supplied extension tube in place of the one on the end cap.
5) Always keep the bulb slightly pressed to avoid excessive intake of liquid or air.
6) Reading: do not draw too much liquid. If the hydrometer is overfilled, the reading cannot be taken.
7) Wait for the float to stabilize. Keeping the hydrometer in a vertical position, check which number or color on the scale the float has reached:



Color	*Degrees Bé*	*Specific gravity*	*Reading*	*Action*
Orange	10/18	1.08 / 1.14 g/cm^3	DISCHARGED CELL	RECHARGE
White	18/27	1.14 / 1.24 g/cm^3	PARTIALLY DISCHARGED CELL	RECHARGE
Green	27/34	1.24 / 1.32 g/cm^3	CHARGED CELL	NONE

After reading, return the electrolyte to the same cell from which it was drawn. Rinse and dry the hydrometer. Store it away from heat sources.