OMICRON YOUR PARTNER IN QUALITY	**Product sheet** **Hydrometer for electrolyte** **Potassium hydroxide KOH**	TECHNICAL OFFICE

USE: ALKALINE BATTERIES (NI-CD)

1.100 - 1.250 g/cm3 10 - +15°C div. 0.01 g/cm3

PRODUCT IDENTIFICATION

Hydrometer for alkaline batteries for measuring electrolyte density in batteries.

This instrument allows measuring the density of the electrolyte inside alkaline batteries.

It consists of a transparent external structure designed to draw liquid from the battery and a glass float or hydrometer placed inside the external structure, which, through the reading of the graduated scale inside it, makes it possible to determine the electrolyte density.

Each element composing the hydrometer and each production phase is carefully tested in our laboratories to ensure maximum precision and quality of the finished product.

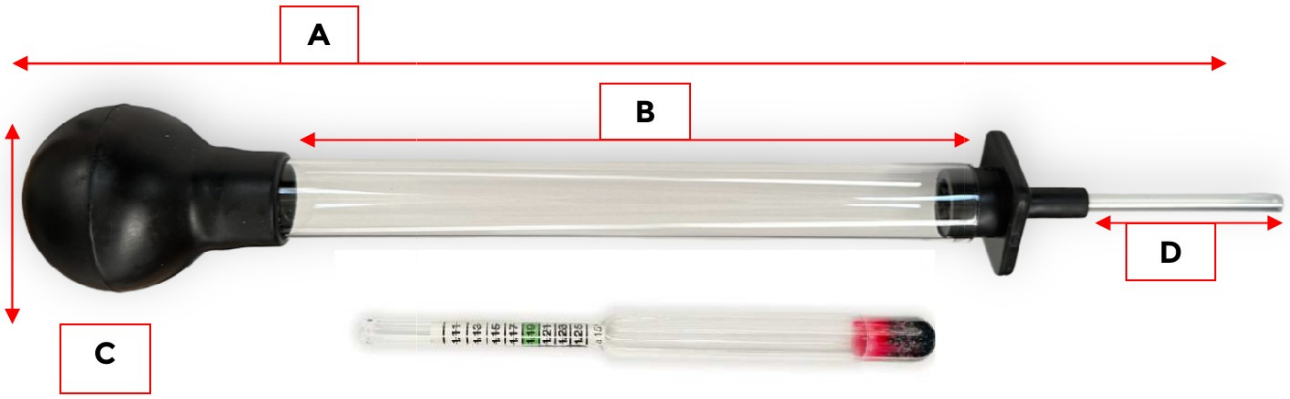
The hydrometer is packed in a cardboard case and is ready for use.

COMPONENT IDENTIFICATION

Ref.	*Description*	*Characteristic*
1	*SQUEEZE BULB*	NATURAL RUBBER
2	*BODY*	GLASS
3	*TERMINAL*	BLACK PVC
4	*NOZZLE*	TRANSPARENT PVC
5	*SAMPLING EXTENSION*	TRANSPARENT PVC

Ref.	*Description*	*Characteristic*
5	*BODY*	WHITE GLASS
6	*SCALE 65 mm (white, green)*	1.100 - 1.250 g/cm3 +15°C div. 0.01 g/cm3

DIMENSIONS



Ref	Specification
A	mm 322

Ref	Specification
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

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 suit	● protective goggles

INSTRUCTIONS

1) Remove the cardboard protection of the hydrometer from the terminal nozzle side.
2) Insert the float into the structure and close with the terminal without using force or tools.
3) Hold the hydrometer by the upper part and keep it in a vertical position.
4) Press the bellows and draw a small quantity of liquid that allows the float to move. If the nozzle is too short, insert the supplied extension in place of the one fitted in the terminal.
5) Always keep the bellows slightly pressed to avoid excessive intake of liquid or air.
6) Reading: wait. Do not draw too much liquid: if the hydrometer is filled too much, it will not be possible to take the reading.
7) Wait until the float stabilizes. Always keeping the hydrometer vertical, check the number or color on the scale where it has stopped:

The green band on the float scale indicates the correct density value.

Specification	Reading
1.180 / 1.200 g/cm3	ELEMENT OK

After reading, empty the hydrometer, rinse it, dry it and store it in a place away from heat sources.