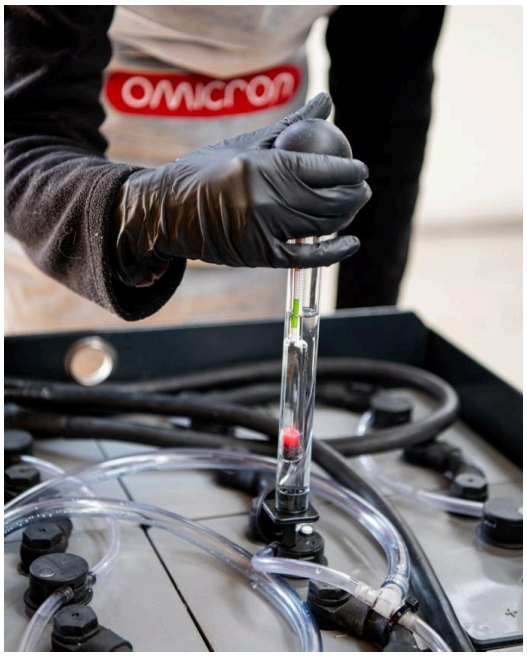
OMICRON	**Product Data Sheet**	TECHNICAL DEPT.
	Professional Electrolyte Hydrometer	

USE: LEAD-ACID BATTERIES

Scale 1080/1300 g/cm3 div. 0.005 g/cm3

PRODUCT IDENTIFICATION



Professional hydrometer with 1080-1300 g/cm3 measuring scale and 0.005 g/cm3 divisions, designed for accurate electrolyte density testing in industrial batteries and advanced technical applications. Made from acid-resistant materials, it ensures precise, repeatable and easy-to-read measurements. An essential instrument for maintenance technicians and professionals who require maximum reliability in quality checks.

Key features:

- **Measuring scale: 1080-1300 g/cm3 with 0.005 g/cm3 divisions for highly accurate readings.**
- **Acid-resistant materials, ideal for use with electrolytes and corrosive liquids.**
- **Calibrated and ready-to-use instrument, designed to provide reliable and repeatable measurements.**
- **Clear reading indications, easy to interpret even in demanding working conditions.**
- **Ideal for industrial battery maintenance, laboratories and professional applications.**

COMPONENT IDENTIFICATION

Ref.	*Description*	*Specification*
1	*SUCTION BULB*	NATURAL RUBBER
2	*BODY*	GLASS
3	*END FITTING*	BLACK PVC
4	*NOZZLE*	TRANSPARENT PVC
5	*SAMPLING EXTENSION*	TRANSPARENT PVC

Ref.	*Description*	*Specification*
5	*BODY*	WHITE GLASS
6	*82 mm white scale*	1.080-1.300 g/cm3 +15°C div. 0.005 g/cm3

DIMENSIONS

Ref	*Specification*
A	322 mm
B	Ø 21.5 mm x 185 mm
C	Ø 45 mm x 65 mm
D	Ø 6.00 mm x 95 mm

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 the measurement, follow these precautions:

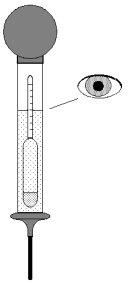
 acid-resistant gloves	 acid-resistant apron or coverall	 safety goggles

INSTRUCTIONS

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

1) Remove the cardboard protection from the hydrometer on the end-nozzle side.
2) Insert the float into the body and close it with the end fitting, without using force or tools.
3) Hold the hydrometer by the upper part and keep it vertical.
4) Press the suction 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 in place of the one on the end fitting.
5) Keep the suction bulb slightly pressed at all times 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 until the float stabilizes. Always keeping the hydrometer vertical, check which number or color on the scale it has stopped at:

Specific gravity	*Reading*	*Action*
1.08 / 1.14 g/cm^3	DISCHARGED CELL	RECHARGE
1.14 / 1.24 g/cm^3	PARTIALLY DISCHARGED CELL	RECHARGE
1.24 / 1.32 g/cm^3	CHARGED CELL	NONE



After reading, return the electrolyte to the same cell.
Rinse and store it away from heat sources.