

BYK LC 2

Conductivity Meter

Provides measurement of electrical conductivity of solvents and solvent borne paint formulations for electrostatic spray applications.

- Stainless steel measuring cell and electrodes
- Solvent resistant housing

When measuring conductivity, liquid builds up a specific ohmic resistance to the electric current, depending on the applied voltage. The reciprocal value is the conductivity. The measured resistance depends on the geometric arrangement of the electrodes within the measuring cell. In order to be independent of the measuring cell, the measured resistance has to be divided by the cell constant "C" which yields specific resistance. The specific resistance describes the application and performance properties of electrocoating paints.

The BYK-Gardner LC 2 Conductivity Meter was developed in cooperation with the VDA (Association of German Automotive Industry) following VDA standards.

Measurement of the resistance of liquid paints is carried out in the annular passage of the measuring cell. The measuring cell consists of two separable parts. The electrodes are arranged concentrically (Cat. No.1710) or parallel (Cat. No.1712), thus forming an annular passage. They are insulated from each other.

The electrodes of the measuring cell are made of stainless steel, with the surface polished and therefore easy to clean. Only an absolutely clean measuring cell guarantees that the entire surface of the electrode is available for measurement. The probe is impervious and can be immersed in solvents for a short time.



Standards

ASTM	D 5682
DIN	55667
ISO	15091

Info!

The BYK LC 2 works only with solvents and solvent based paints. The presence of water will cause electrolysis and results in false readings.

Ordering Information

Cat. No.	Description
1722	Conductivity Meter LC 2
1710	Conductivity tube cell, LC 2
1712	Conductivity plate cell, LC 2
1713	Space holder for 1712

Note: BYK LC 2 Meter and measuring cell must be ordered separately. Please order 1713 space holders when ordering the 1712 measuring cell. The space holders are necessary to maintain the proper distance between the plates.

Technical Specifications

Measuring Range	Measuring Voltage	Power Supply	Dimensions	
50 kΩ - 19.99 MΩ, 20 μS - 0.05 μS	8 V (AC/DC)	9 V battery	105 x 55 x 145 mm (4.1 x 2.2 x 5.7 in)	
Diameter	Width	Cell Length	Cell Constant C	Qty/Box
42 mm (1.6 in)		250 mm (9.8 in)	7.55 x 10 ⁻³ cm ⁻¹	
	50 mm (1.9 in)	380 mm (14.5 in)	7.55 x 10 ⁻³ cm ⁻¹	
				100



Very easy to clean – Plate Cell