



ACS Material Equipment Series

MetriTec™ Glass Thickness Meter

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I. Product Overview

ACS Material's **MetriTec™ Glass Thickness Meter** is a robust and reliable tool engineered for accurate measurement of both glass thickness and air gaps within insulated glass units (IGUs). Utilizing laser reflection technology, the device projects reflected laser points onto a graduated scale, allowing for fast and precise thickness assessment.

Designed for one-sided measurement, the gauge enables users to evaluate both glass layers and internal air spaces without disassembling the IGU or using additional tools. Its user-friendly operation and reliable performance make it an essential instrument for professionals in the glass, construction, and window manufacturing industries.

II. Product Features of the MetriTec™ Glass Thickness Meter Series

MetriTec™ Glass Thickness Meter M200 can be used for thickness measurement of single-layer glass, insulating glass and cylindrical glass bottles. It is especially suitable for measurement occasions where ordinary scales or calipers cannot or are not easy to operate, such as measuring the wall thickness of glass bottles and the thickness of laminated glass windows. For the measurement of the insulating glass thickness, the thickness of each glass layer and the intermediate air layer can be measured simultaneously. The glass thickness meter is suitable for the glass thickness measurement in quality inspection, supervision, teaching, production, sales, engineering construction and other occasions.



MetriTec™ Glass Thickness Meter M201 uses the optical reflection principle to measure the glass thickness on one side of the glass. It is especially suitable for the measurement where general measurement tools such as scales or vernier calipers that cannot or are not easy to operate. Such as the thickness measurement of laminated glass and hollow glass. For the measurement of laminated glass, the thickness of multilayer glass and intermediate air layer can also be measured at the same time. The instrument uses CCD detection, liquid crystal display. It also has simple operation, fast and reliable measurement.



Test triple glazing



Test double glazing



Test insulating glass



Test laminated glass



III. Product Application

MetriTec™ Glass Thickness Meters are mainly used to measure the thickness of glass and the thickness of the air layer in the middle. ACS Material handheld glass thickness gauges using the principle of laser reflection, the glass thickness and the thickness of the air layer can be measured by placing it on one side of the glass. It is especially suitable for places where it is difficult to measure with tools such as vernier calipers, such as measuring installed door and window glass, curtain wall glass, etc.

Glass thickness measurement is essential for ensuring safety, quality control, and compliance across industries. In architecture and automotive manufacturing, precise glass thickness guarantees structural integrity, impact resistance, and adherence to safety standards. It plays a crucial role in manufacturing precision, maintaining consistency in

products like windows, displays, and optical lenses, reducing defects, and improving efficiency. For multi-layer and coated glass, accurate measurement ensures proper lamination and coating thickness, critical for construction, aerospace, and security applications. Additionally, in energy-efficient glazing, correct glass and air gap thickness directly impact insulation performance, reducing heat loss and improving sustainability.

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