ThicknessPen™ - an easy way to measure thickness, courtesy AGR

A must-have for competitive industries that prioritize quality control and productivity, AGR's ThicknessPen™ has dual-mode precision. Whether in magnetic or capacitance mode, this portable device ensures both accuracy and versatility. Its rugged, water-resistant design suits diverse environments, while Bluetooth connectivity and its very own app enhance operational efficiency.

ThicknessPen™ is designed to provide high accuracy measurements yet withstand the rigours of the industrial environment whether in the laboratory, on the factory floor or in the field

ThicknessPen™ can be used in its docking station for bench-top measurements or on its own, as a portable device wherever critical measurements are required.

There's now a new tool on the market to help manufacturers measure thickness and manage material distribution. The ThicknessPen™ from AGR international offers an innovative approach to portable thickness measurement - providing easy, non-destructive and highly accurate thickness measurement of all types of non-ferrous products. The device was developed to address the multiple and diverse thickness measurement applications of the production environment, featuring a lightweight compact size that offers unlimited portability. Its rugged design is water and drop resistant, making it ideal for use anywhere from the laboratory to the plant floor to a wet environment at some job site in the field.

DUAL MODE DESIGN

With its patent-pending, dual-mode operation the ThicknessPen™ differs from other measurement devices, offering users the option to measure using either a magnetic or capacitance mode - whichever is most appropriate for the application. This affords a unique advantage - offering versatility in comparison to so many products in this marketplace while still providing the precision necessary for the laboratory, as well as the portability, ruggedness and safety for use on the production floor.

With its magnetic mode, a target ball is used during measurements that are similar to other magnetic gauges. This offers pin-point measurement with a level of precision equal to or exceeding traditional magnetic devices but with greater simplicity and reliability. Unlike other magnetic-based systems, there is no need for multiple ball sizes to span the measurement range. On the ThicknessPen™ only a single ball size is used over the entire range, thereby eliminating the need for multiple calibrations and decisions regarding the proper ball to use for an application. Advanced design of the device incorporates a low strength, integrated magnet that remains unaffected by nearby ferrous items and doesn't carry the risks associated with probes that use strong magnetic fields. This mode is ideal for laboratory work, measuring intricate areas of a product where either pin-point or routine measurement of all types of non-ferrous materials is desired. The low-strength magnetic approach is also advantageous when measuring such soft

materials as foam and paperboard products.

The capacitance mode, on the other hand, provides the means to perform single-sided measurement without the need for a target ball. This is ideal at-the-line or for measurements in the glass plant or at customer sites where portability is desired and the risk of product contamination or inconvenience of using a target ball or ultrasonic coupling fluid is a concern. This mode offers a quick, 'touch and go' approach and is compatible with most non-metallic items. It's especially applicable for measuring large containers as well as such products as glass and plastic sheets and panels or large parts where the use of a target ball is impractical. In many cases, measurements traditionally performed with ultrasonic methods can also be performed with the ThicknessPen™. Its portability and rugged construction provide further advantages as well as compatibility with the production environment.

So whether using the magnetic or capacitance mode, the ThicknessPen™ can be adjusted to take measurements in several ways. These include the capture of a single measurement, a scan over a surface to collect multiple samples or min/max measurements that will identify the thinnest or thickest points over a measurement area.

APP-BASED, BLUETOOTH ENABLED

With the ThicknessPen™ App, a laptop or tablet becomes both data display and work centre for system management and operations. Through the App, an operator can do a host of operations, such as job creation and naming, recall of an existing job, data capture and storage. Measurements can be viewed in real-time and easily captured for data processing. In addition, all basic ThicknessPen™ management functions can be conducted with the App - including calibration, unit and mode selection. With the App, system software never goes out of date and upgrades are easily managed.

With the ThicknessPen™ App, a laptop or tablet becomes your data display and work centre for system management and operations.

Utilizing Bluetooth technology, the ThicknessPen™ requires no cables or wires for its operation. When the pen is used remotely without a phone or tablet, data can be easily transferred from the pen and stored in the App upon return to the base station. However, if a wired connection is preferred, a USB cable is supplied with the device.

AGR products are designed to assist container producers, converters and fillers to stay competitive - all whilst meeting the increased quality demands of today's changing world. As an industry leader, AGR is committed to providing the container and filling industry with technologically-advanced products for quality control and productivity improvement.

In sum, the most notable features of ThicknessPen™ include:

- Dual mode operation
- Compact and lightweight
- Rugged, drop and water-resistant construction
- Easy, intuitive operation
- Bluetooth-enabled
- tablet compatible ■

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