

Precise thicknesses and grammage gauge model PI-MGG 01

Model PI-MGG 01 is a precision, automatic laser digital gauge. It's designed for simultaneously measure thickness and grammage of paper and all kinds of materials, including foil. The meter comply with standards, inter alia, PN-EN ISO 536 Paper and board – Determination of grammage; PN-ISO 4593 Plastics - Film and sheeting - Determination of thickness by mechanical scanning. After applying the sample and press start key measurement is made automatically. Sample, in accordance with standards, is automatically charged during the measurement, which guarantees high precision and accuracy.

Standard equipment

- large worktable, dimensions 700 mm x 600 mm;
- laser probe - thickness measurement gauge with a measuring range up to 50 mm and a resolution of 0.001 mm;
- automatic sample loading during operation;
- probe - grammage meter range up to 450 g/m² and a resolution 0.01 g/m²;
- measuring spot with a diameter of 10 mm and a load of 0.5 ... 1.0 N;
- monitor - color touch screen with built-in keyboard (6.5") to fully support gauge and display measurement result, along with the full performance statistics (average value, standard deviation, RSD, minimum value, maximum value, on line results interpretation, individual values graph displaying);
- digital clock that displays real time with 0.1 seconds accuracy;
- gauge has access to a PC with possibility of control via an external computer;
- CE mark;
- origin: Poland/European Union.

Optional equipment

- dedicated software with extended interface;
- gauge integration with production line.

Standards :

- PN-EN ISO 536 Paper and board – Determination of grammage;
- PN-ISO 4593 Plastics - Film and sheeting - Determination of thickness by mechanical scanning.

Technical characteristics

- spot metering or scanning measurement;
- thickness measuring range: 0 ... 50 mm; *
- thickness reading accuracy: 0.001 mm; *
- grammage measuring range: 0... 450 g/m²;
- reading accuracy accuracy: 0.01 g/m²;
- time measurement accuracy: 0.1 sek.;
- measurement of the apparent density;
- specific volume measurement;
- digital outputs: USB x 2, RS 232, Ethernet, printer; *
- dimensions 720 mm x 620 mm x 700 mm;
- power 230 V/ 120 W.

* other to be negotiated



Gauge consists of the following elements

- polish software (other language to be negotiated);
- full device support;
- research methods can be set individually;
- monitor - color touch screen with 6.5" diagonal with built-in keyboard to fully support a gauge;
- memorizing measuring methods of own research programs;
- data export to Excel for further processing;
- self reset operation;
- create and manage custom reports;
- memorizing research results (unlimited - depends on the media capacity);
- ports operation I/O (USB, RS 323, Ethernet);
- error messages displaying;
- servicing;
- calibration on reference materials;
- calibration on standard plates.



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The company holds Permits of the Ionization Radiation Application Supervision Department of the National Atomic Agency of Poland for the manufacture of isotopic equipment and XRF spectrometers.

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