

The Solution for the Polymer Industry



Thickness Measurement TM9

The Original by OCS

Thickness Measurement TM9



Thickness Measurement TM9 Function

The online Thickness Measuring System TM9 was designed for the continuous thickness measurement of running strips of film.

The measuring system uses an eddy current sensor. The film runs between two free running measuring wheels, one of which is stationary. The position of the other, and also the force it exerts on the film is adjustable using a spring and an electromagnet. This wheel is connected to the sensor, which allows a direct measurement of the distance between the wheels and therefore the film thickness.

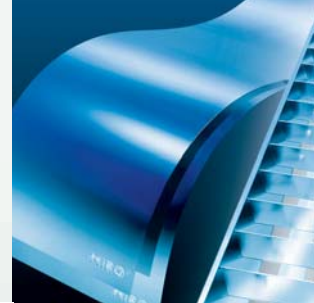
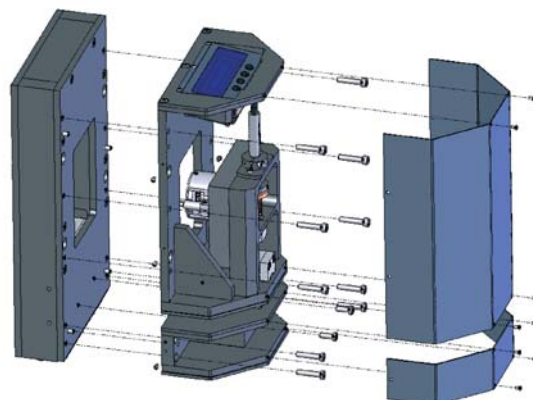
The thickness is displayed in μm . A certain amount of measurement occurs each second and the result is averaged over a certain length of film. Both the amount and the length can be adjusted.

The electronics for evaluation and the regulation of the wheel force and the LED display are located in a separate housing.

The online Thickness Measuring System TM9 is used for continuous measurement of the thickness of running strips of film for laboratory and production line.

The TM9 was constructed to accompany the production of film strips. It can be optimally used with the OCS measuring Extruder ME 20/26 and Chill Roll & Winder Unit CR9, which additionally has integrated infrared spectroscopy.

The TM9 is mounted onto the CR9 and can be controlled by the same system controlling computer as the film scan system FSA100 which counts gels and other defects in the film. This means that the sensor information can be evaluated by the same software which receives information from the camera of the FSA100, supplying the user with all the necessary data in the same way as on one monitor.



This also means that all the relative data gathered on contamination in the film and its thickness can be printed out in the same protocol.

Technical Data

Measuring range: 0 – 600 μm
Resolution: 1 μm
Measuring principle: Distance measurement using eddy current measuring principle

Measuring time: Adjustable
Averaging: Adjustable
Interface: RS 232
Power supply: 230 V/50 Hz, 100 W
 115 V/60 Hz

Operating temperature: 10 °C - 40 °C

Technical alterations are reserved.

Benefits

- Efficient, objective and reproducible laboratory evaluation
- Optimised quality
- Increased competitiveness by automated quality control
- Precise and consistent quality evaluation
- Reduced customer complaints and returns
- Faster inspection

Suitable for Research & Development, laboratory use and for statistical production control.



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