

EddyCus® TF inline WT-MT – Metal Thickness Monitoring Sensor

P_T_WTMT_20



Highlights

- ▶ Contact free and real time
- ▶ Accurate measurement
- ▶ For high resistive metal filaments
- ▶ For high value conductive fibers
- ▶ Up to 200 sensors
- ▶ Single-lane and multi-lane solutions
- ▶ High production speed up to 10 m/s
- ▶ Feed data directly to a PLC

Applications

- ▶ Surface resistivity (Ohm/sq)
- ▶ Electrical resistivity (Ohm/m)
- ▶ Metal substrate thickness (µm)
- ▶ Defects monitoring

Parameters

- ▶ Conductive fiber uniformity
- ▶ Filament breakedge & fuzz
- ▶ Tow twist & splice
- ▶ Coating resistivity
- ▶ Conductive coating uniformity
- ▶ Impregnation dry/ wet
- ▶ Degree of metallization
- ▶ Fiber spreading
- ▶ Filament winding

Materials

- ▶ Coated yarn
- ▶ Metal fibers
- ▶ Conductive coating
- ▶ Nanowire (CNT, AgNW)
- ▶ Carbon fiber
- ▶ Smart textiles
- ▶ Shielding and EMI materials

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Engineered and Made in Germany 





Test material geometry	Width: 1 – 20 mm Height: 5 mm Other on request (inner diameter < 100 mm)
Sensor size	Various sensor sizes are available
Sensor type	Open / Closed loop
Measurement types	Metal thickness of coatings (nm, μm) Wire thickness (μm , mm) Shielding quality, coating uniformity
Measurement range	Metal thickness 0.005 – 5,000 μm
Sampling rate	1 - 10.000 measurements per second
Mode	Non-contact
Method	Inductive
Add-ons	Scalable to multiple lines Optical camera
Device dimensions (w/h/d)	Standard 80 x 60 x 70 mm Other sensor diameters and sizes are available

Software – EddyCus® TF inline Series

- ▶ Several views and user level
- ▶ Live view with upper and lower limits and alarm functions
- ▶ Analysis view providing statistics
- ▶ Can handle data of several thousands measurements per second
- ▶ Data storage into SQL database
- ▶ Customizable automated data export (csv, txt, xls,...)
- ▶ Several smart functions (automated DB cleaning, self-reference etc.)
- ▶ Parameterizable I/O modules (triggering of actions or alarms)

