

EddyCus® TF inline WT-HF — High Frequency Monitoring Sensor

P_T_WTHF_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

SURAGUS GmbH Maria-Reiche-Strasse 1 01109 Dresden Germany

For further questions: +49 351 32 111 520

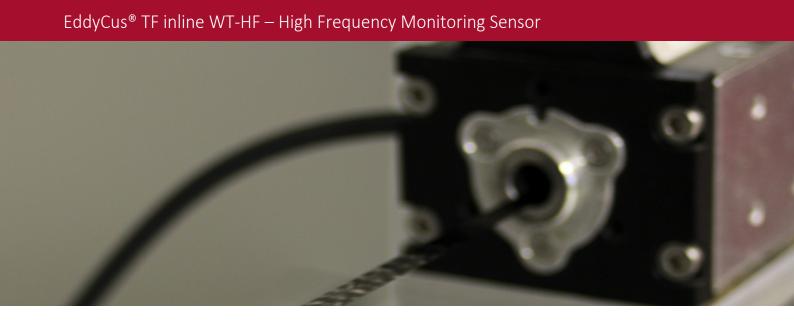
sales@suragus.com

Visit us at:
www.suragus.com
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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	Wet coating thickness Residual moisture Composition monitoring (electric, dielectric, magnetic)
Measurement range	Wet coating thickness $10-5,000 \mu m$ Residual moisture $5-1,000 \%$
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)

