The EddyCus® CF inline BW is especially designed for the inline monitoring of basis weight for carbon fabrics. The weaving and spreading process of CF tows or processing of chopped fibers or non-wovens such as fleece can be evaluated online without contact to fabric. Each sensor observes a particular lane of the web. By stacking multiple sensors, one can monitor the entire web width. This non-destructive testing solution is independent of the presence of resin, binder or thermoplastic matrix. It can measure carbon volume fraction of intermediates such as thermoset prepregs or organic sheets.
DATA SHEET
EddyCus® CF inline BW – Basis Weight Measurement

EddyCus® CF inline BW

- Sample rate
  - 1 – 500 samples/sec/lane
- Measurement / Scanning area
  - 1 – 99 sensors across entire web width
- Fluttering tolerance
  - ± 1 mm (higher on request)
- Interface
  - e.g. ethernet, profibus
- Required space
  - Small (approx. 300 mm in production line)
- Mode
  - Process control, quality report
- Carbon fiber materials
  - CF-non-wovens, CF-fleece, CF UD-tapes, CF non-crimp fabrics (NCF), flat CF preforms, conductive coatings

QUANTITATIVE MEASUREMENT

Applications
- Non-contact determination of basis weight
- Non-destructive measurement of carbon fiber volume fraction
- Evaluation of conductive coating
- Suitable for non-woven CF fabrics, CF fleece or recycled short CF, CF, UD tapes

SOFTWARE & HANDLING

Benefits
- High usability
- Intuitive design/handling
- High speed measurement and display of results
- Data archiving

Applications
- Non-contact determination of basis weight
- Non-destructive measurement of carbon fiber volume fraction
- Evaluation of conductive coating
- Suitable for non-woven CF fabrics, CF fleece or recycled short CF, CF, UD tapes

Benefits
- Non-contact, coupling-media free
- Penetration of all layers
- Applicable to carbon fabrics
- Adaptive system
- Presence of binder or matrix irrelevant

Basis weight monitoring of four lanes: two lanes diagrammed