

SENSOR TECHNOLOGY OVERVIEW

Depending on the requirement, different sensors can be used.



Isotope Transmission Sensor

Isotope transmission measurement is a contact-free measuring method, measuring the basis weight (g/m^2). It uses the fact that all radiation is decreased when passing through materials.



Isotope Backscatter Sensor

Isotope transmission measurement is a contact-free measuring method, measuring the basis weight (g/m^2). It uses the fact that all radiation is decreased when passing through materials.



X-Ray Standard X-Ray < 5 kV / Extended Range

When the transmission method is used for measuring, emitter and detector are facing each other, with the measured material in between. Radiation is weakened by the measured object, and the degree of weakening is subject to the density, thickness and composition of the measured object.



Laser beam shadowing sensor

The measuring principle uses the shadowing of a linear laser beam. A geometric well defined laser beam illuminates a rectangular measuring spot in cross direction to ensure high resolution. The material to be measured screens the beam within the measuring range.



IREX-Sensor – CONESPLIT® Same Spot Technology

Infrared sensors are configured as backscattering or transmission sensors. The CONESPLIT® Same Spot Technology is a patented measuring procedure.



IndiSpectro®

The thickness measurement of mono- and multilayers is based on the comparison of the optical layer thicknesses with the wavelengths of the light. Light irradiated on a transparent layer is partially reflected at the upper as well as at the lower interface.



PC16S®-wave

The measurement principle is based on a transmission procedure without ionizing electromagnetic waves. The interaction of the waves with the web leads to an evaluable absorption, which has a correlation to the thickness of the web.



Ash content sensor

Depending on the measurement application the radioactive nuclide $\text{Fe}55$ or a X-RAY tube will be used as energy for transmission the web for the ash or filler measurement. With the help of a pc-based algorithm it is possible to analyse the absorption to define the different filling materials.

Be inspired. Move forward.

Answering Fax to +49 2762 612-390

Please send us your

- | | |
|---|--------------------------------|
| <input type="radio"/> Offer | <input type="radio"/> by email |
| <input type="radio"/> Information material | <input type="radio"/> by fax |
| <input type="radio"/> Service hotline information | <input type="radio"/> by mail |
| <input type="radio"/> Information on used measuring systems | |

Company

Name

Street

ZIP, Town

Country

Phone, Fax

Email

Homepage

Prozess

- | | |
|--------------------------------------|---------------------------------------|
| <input type="radio"/> Film extrusion | <input type="radio"/> Plate extrusion |
| <input type="radio"/> Plate material | <input type="radio"/> Calender |
| <input type="radio"/> Blown film | <input type="radio"/> Coating |
| <input type="radio"/> Textile | <input type="radio"/> Non-Woven |
| <input type="radio"/> Paper | <input type="radio"/> Tissue |

Requirements:

- | | | |
|--|--------------------------------------|-----------------------------------|
| _____ Line speed (min./max.) | <input type="radio"/> Thickness | <input type="radio"/> Radiometric |
| _____ Material width (min./ max.) | <input type="radio"/> Density | <input type="radio"/> Laser |
| _____ Measuring range (min./ max.) | <input type="radio"/> Basis weight | <input type="radio"/> Infrared |
| | <input type="radio"/> Humidity | <input type="radio"/> X-Ray |
| <input type="radio"/> Stationary measurement | <input type="radio"/> Length | |
| <input type="radio"/> Traversing measurement | <input type="radio"/> Speed | |
| <input type="radio"/> Automatic control | <input type="radio"/> Film thickness | |
| <input type="radio"/> other | | |

Comments / Special Functions:

We are happy to help!

BST eltromat International GmbH • Location Wenden • Industriestraße 1 • 57482 Wenden • Germany
Telefon: +49 5206 999-0 • Fax: +49 5206 999-999 • info@bst-international.com

A member of the **ELIXIS** group

© 2017 BST eltromat International GmbH • BSTProC_B420_1017_EN • Subject to modification