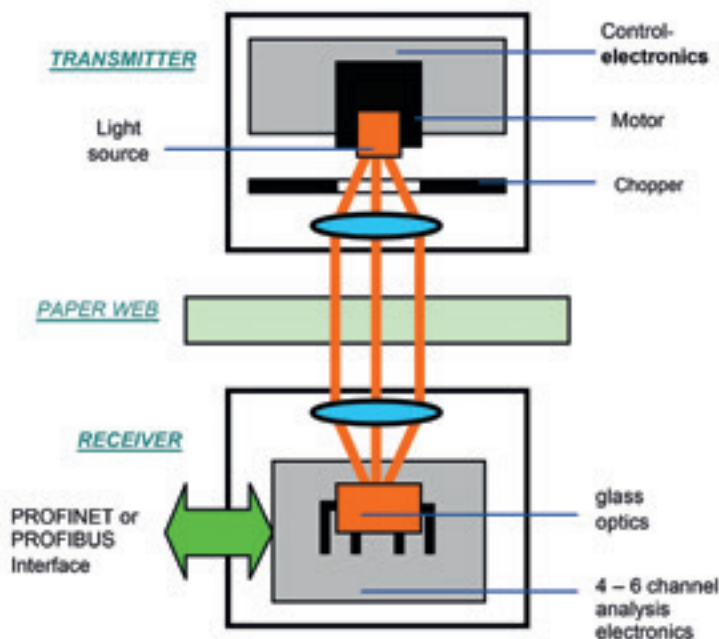


INFRARED TRANSMISSION SCATTER SENSOR IREX-TS

For the total thickness measurement of polymer films or for the selective measurement of individual layers (e.g. EVOH barrier layer) in coextruded polymer films BST ProControl uses optical multi wavelength analysis methods in the Near and Mid Infrared range. For the measurement of single polymer layers on paper and non-woven or for moisture measurement in light weight paper products BST ProControl uses optical multi wavelength analysis methods in the Mid and Near Infrared range. Modern algorithms compute e.g. for the moisture reading of up to 6 wavelengths nearly free of influence from fillers.

Features

- Same-spot measurement without rotating filter wheel (new development)
- Multi-filter algorithm for measurement independent of fillers
- High stability resulting from temperature controlled detector
- Software controlled set point of internal references



Typical IR measurements in transmission scatter mode:

Type of measurement	Range	Accuracy (2 Sigma, 1s)
Moisture e.g. in papers 40 to 300 g/m	Up to 30% H ₂ O	+/- 0.1% H ₂ O abs.
e.g. Polyethylene on paper	1 to 50 g/m ²	+/- 0,2 g/m ²
e.g. Polyethylene on paper	50 to 150 g/m ²	+/- 0.3 g/m ²
Silicone on paper or polymer foil	1 to 20 g/m ²	+/- 0.1 g/m ²
Total thickness of clear and light pigmented Polymer films	20-2000 µm	+/- 0,2 - 5 µm
Selective layer thickness of coextruded polymer films	20 – 1000 µm	+/- 0,2 - 0,5 µm
Thickness of stretched films e.g. BIAx films	1 – 60 µm	+/- 0,2 - 0,5 µm

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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

Process

- | | |
|--------------------------------------|---------------------------------------|
| <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 |

Requirements:

_____ Line speed (min./max.)

_____ Material width (min./ max.)

_____ Measuring range (min./
max.)

Stationary measurement

Traversing measurement

Automatic control

other

Thickness

Density

Basis weight

Humidity

Length

Speed

Film thickness

Radiometric

Laser

Infrared

X-Ray

Comments / Special Functions:

Be inspired. Move forward.

We are happy to help!

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