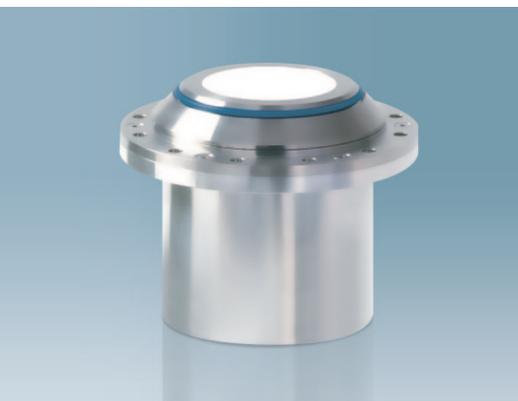


High-speed Instrument MW 3011

**For Machine Integration by our  
OEM Customers**



- 100% control** High-speed microwave measuring system MW 3011 is the latest innovation by TEWS Elektronik for parallel moisture and density measurement in rapidly moving products - for instance, cigarette rods during manufacture. 10,000 readings produced via an analog interface can be taken every second.
- Applications** MW 3011 is used in the tobacco industry for online measurements of moisture and density in the production of cigarettes and cigar rods. Due to its high spatial resolution as well as many other factors, the system can perform an exact control of the cutting position or detection of foreign particles in the product.



The measuring of the filter raw material triacetin can also be controlled during fiber production for the tobacco industry.

Online measurements in quickly moving threads, yarns, weight measurements of tablets or gelatine capsules at a measuring speed of 50 capsules per second using this instrument have also already been performed successfully.

This allows 100% quality control of the measured material.

#### TECHNICAL DATA:

Measuring speed	10,000 readings per second For example, assuming a production speed of 12,000 cigarettes per minute, equaling 200 cigarettes per second, every single cigarette will be measured at 50 different positions.
Accuracy (moisture)	$\pm 0,1$ bis $\pm 0,3\%$ for tobacco in a moisture range of 5 – 20%
Accuracy (mass)	for example $\pm 0,5\%$ of final tobacco result within the set density range (0 – 400) mg/cm <sup>3</sup>
Microwave output	low 15 mW
Data outputs	analog outputs (0-10 V), (0/4-20 mA) for moisture and density, RS 232, RS 422, CAN interface, optional SRM 8000.