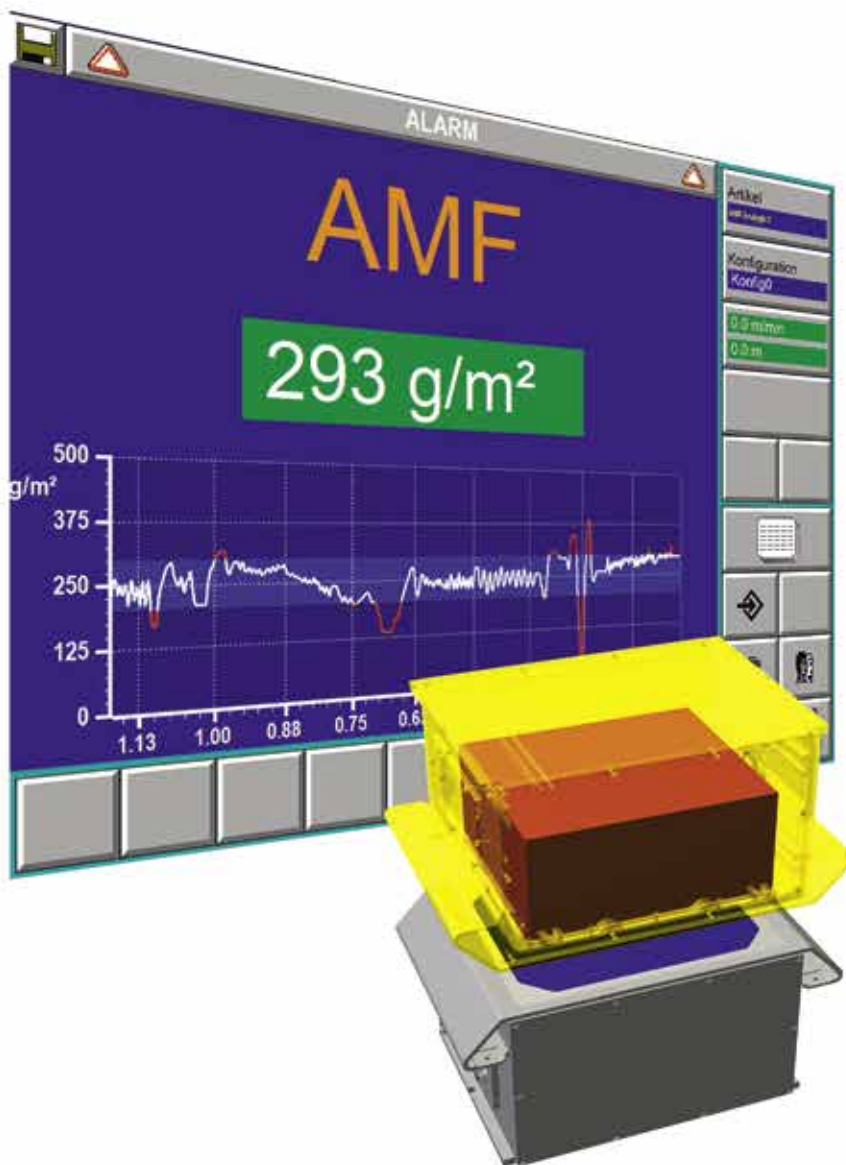


AQUALOT AMF

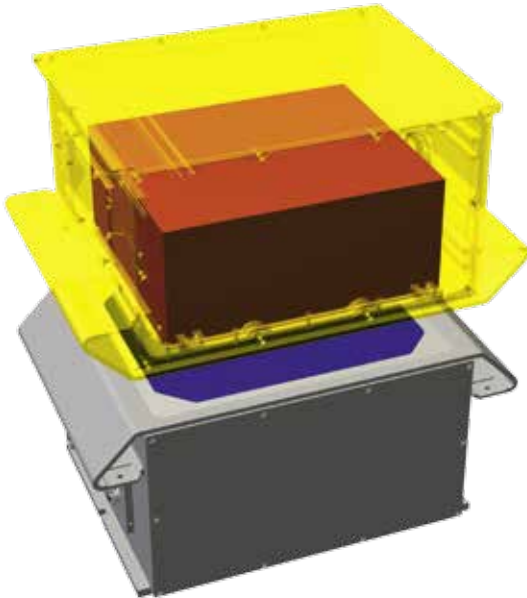
Microwave Moisture Measurement



AQUALOT AMF

AQUALOT AMF

Moisture measurement



Tasks

Continuous, exact and non-contacting monitoring of the moisture content of meter goods is extremely important for the quality and productivity in many process control processes in the nonwovens, textile, paper and plastics industry as well as in coating technology.

Solution

The Aqualot AMF sends microwaves through the moist product web. The water in the product causes damping and phase shifting of the microwaves. The material moisture can be determined by comparing the output and input signals.

Benefit

Aqualot AMF permits the exact determination of the total material moisture. The measurement is contactless and non-destructive. The ascertained moisture value can be supplied to a controller as actual value to regulate the web speed, dryer output or squeezing pressure.

Product highlights

- ✓ Measuring the total aqueous material moisture, contactless and non-destructive
- ✓ High measuring accuracy
- ✓ Optimisation of drying and application processes in regard to homogeneity, productivity and energy efficiency

Customer benefits

- ✓ Non-destructive, continuous determination of the moisture (H₂O) of product webs
- ✓ High stability and measuring accuracy with minimal calibration effort
- ✓ Long life expectancy through the use of high-quality components
- ✓ Broad measuring range

Applications

- Moisture measurement of textiles, carpets, tyre fabric, nonwovens, glass mats, paper, cardboard, foils, ceramic foil, adhesive tape, abrasives, veneering, sponge cloth, etc.
- Application measurement of water-soluble coatings (e.g. colour, glue or foam)
- Measurement of intermediate moisture
- Residual moisture measurement after dryers
- Online monitoring of dyeing processes
- Contactless measurement of the size application

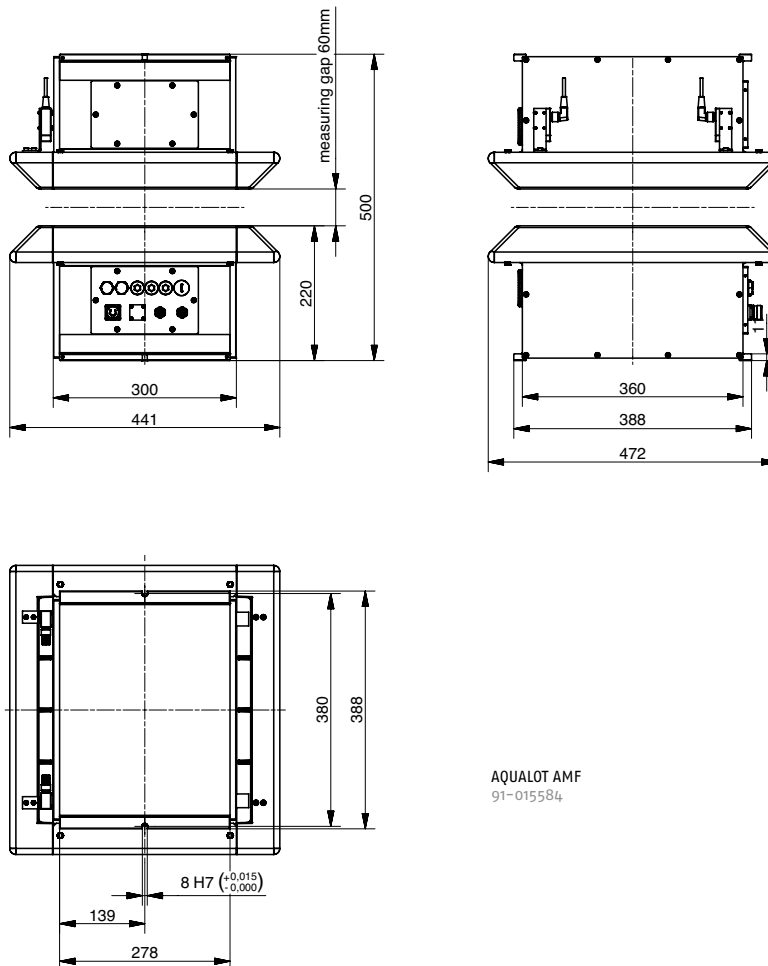
Can be used in

- OPTIPAC VMC-12
- ORTHOPAC RVMC-12

TECHNICAL DATA | AQUALOT AMF

Sensor	Aqualot AMF
Measuring principle	Microwave moisture measurement
Measuring range	5 - 2000 g (H ₂ O)/m ² , 5 - 300 % relative
Resolution	1 - 2 g/m ² (at approx. 300 g (H ₂ O)/m ²) approx. 5 g/m ² (at approx. 1000 g (H ₂ O)/m ²)
Measuring spot size	approx. 250 cm ²
Measuring gap	60 mm
Power supply	24 V DC
Max. ambient temperature	50 °C

Dimensions



AQUALOT AMF
91-015584

Monitoring and control systems, automation:

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