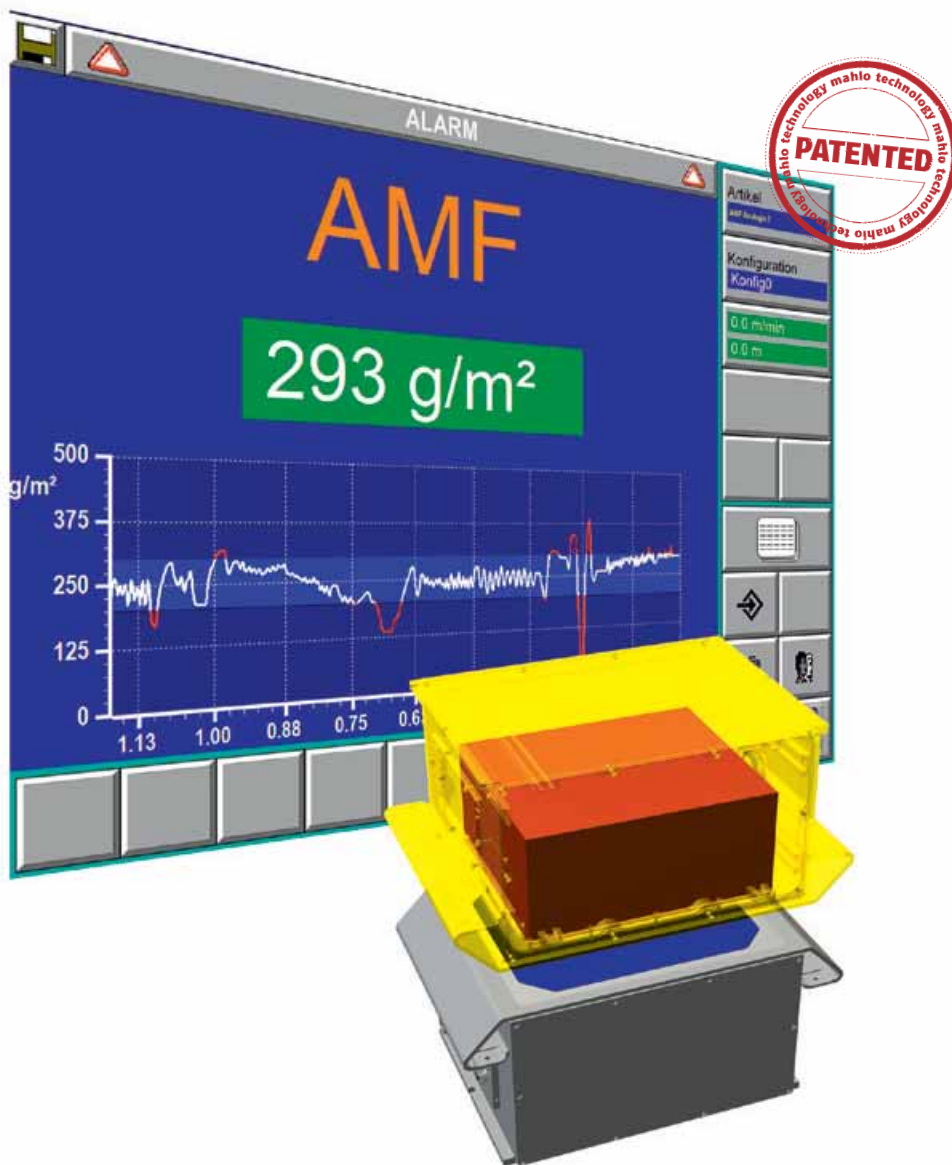


INNOVATION

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AQUALOT AMF

Microwave Moisture Measurement



AQUALOT AMF





TEXTILE



NONWOVENS



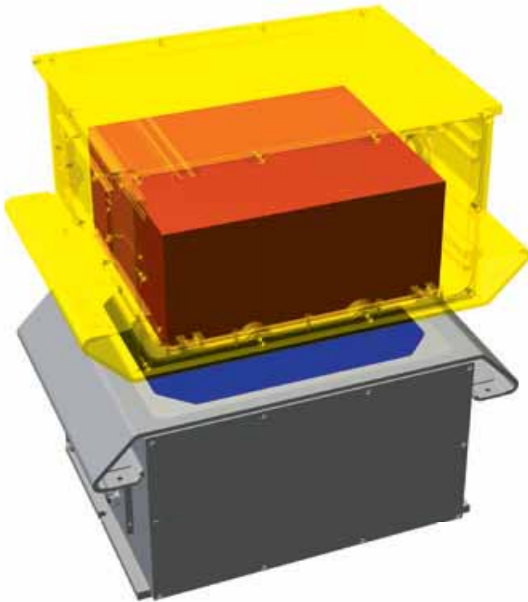
PAPER



PLASTIC

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

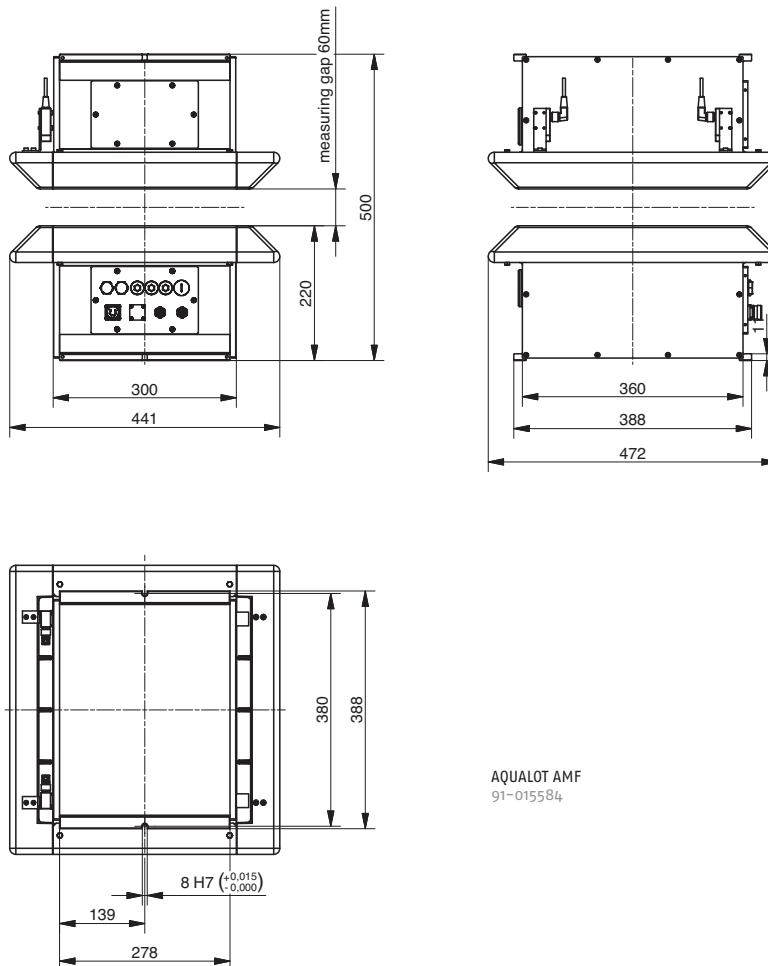
Can be used in

- 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



Monitoring and control systems, automation:

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Overall management of Mahlo GmbH + Co. KG
and all subsidiary companies:
Ralf Hopp, Dipl.-Ing. (FH)

Mahlo GmbH + Co. KG Germany

Donaustr. 12, 93342 Saal/Donau
Contact: Ralf Hopp
Tel.: +49-9441-601-0
Fax: +49-9441-601-102
info@mahlo.com

Mahlo Italia S.R.L. Italy

Via Fiume 62, 21020 Daverio
Contact: Michel Bruni
Tel.: +39-0332-94-95-58
Fax: +39-0332-94-85-86
mahlo.italia@mahlo.com

Mahlo America Inc. USA

P.O. Box 2825, Spartanburg, S.C. 29304
Contact: Alan Lavore
Tel.: +1-864-576-62-88
Fax: +1-864-576-00-09
mahlo.america@mahlo.com

Mahlo España S.L. Spain

C/ Santa Margarida, s/n - Nave nº13
Poligono Industrial Riera de Caldes - Boada Vell
E08184 Palau Solità i Plegamans (Barcelona)
Contact: Jordi Grass
Tel.: +34-90-20062-30
Fax: +34-90-20062-40
mahlo.espana@mahlo.com

Mahlo Ouest S.P.R.L. Belgium

Quartum Center
Hütte 79 - Bte 10
4700 Eupen
Contact: Manfred Havenith
Tel.: +32-87-59-69-00
Fax: +32-87-59-69-09
mahlo.ouest@mahlo.com

Mahlo de Mexico SA de CV. Mexico

Av. del Iman 580, Edif. La Joya, Depto. 304,
Col. Pedregal de Carrasco, Del. Coyoacán D.F., CP 04700
Contact: Jordi Grass
Tel.: +52-555-606-47-52
Fax: +52-555-606-47-52
mahlo.mexico@mahlo.com

WWW.MAHLO.COM



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