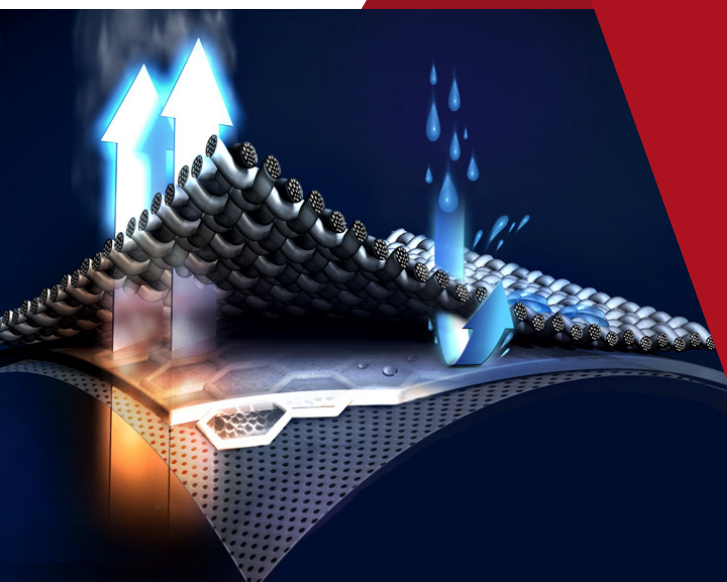


ACA Permi

R.A.M. GmbH



**Online
Air
Permeability
Analyser**



**Online Breathability -, Porosity -,
Permeability - Analyser
for web structure control**

ACA Permi is the best tool to balance your process stability and product quality. On-line air permeability measurement provided by PERMI monitors your process and quality factors and keeps you on the safe side.

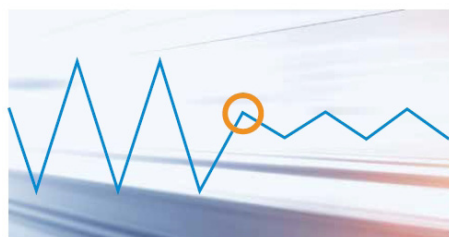
Process

Quality



ACA Permi delivers

Stable process



With Permi our customers have stabilized their process and achieved for example:

- + 15 % production rate increase
- + 25 % speed increase
- + 50 % faster grade changes
- 25 % production costs

Reliable data



No other on-line device can deliver such reliable data than Permi.

- >0.95 R2 correlation between Permi and lab permeability analysers
- Very good correlation between Permi and many process and quality factors (see application areas)

User Friendliness



ACA Permi is easy to install and use

- Wide measurement range with only one calibration
- Fixed point or scanning installation
- Automatic cleaning cycle
- Measurement data can be transferred to mill own quality system

Application Areas



Paper & Packaging

Application areas	Packaging papers and board, Speciality papers, Printing & Writing papers
Process factors	Degree of refining, Broke level, Chemical dosages, Pulp quality, Machine set-ups, wet-end stability
Quality factors	Paper structure (basis weight, porosity, caliper), surface and print properties, strengths properties

Felts, fabrics and wires

Application areas	Machine clothing & wires, other fabrics and textiles
Process factors	Raw material type, bonding technology, machine set-ups
Quality factors	Web structure and uniformity, Porosity, Functional porosity, strengths, special functionalities

Nonwovens

Application areas	Disposable and durable nonwovens, Fibreglass
Process factors	Fiber type and size, bonding technology, machine set-ups, chemical dosage
Quality factors	Web structure and uniformity, Porosity, Functional porosity, strengths, special functionalities

Film & Engineered materials

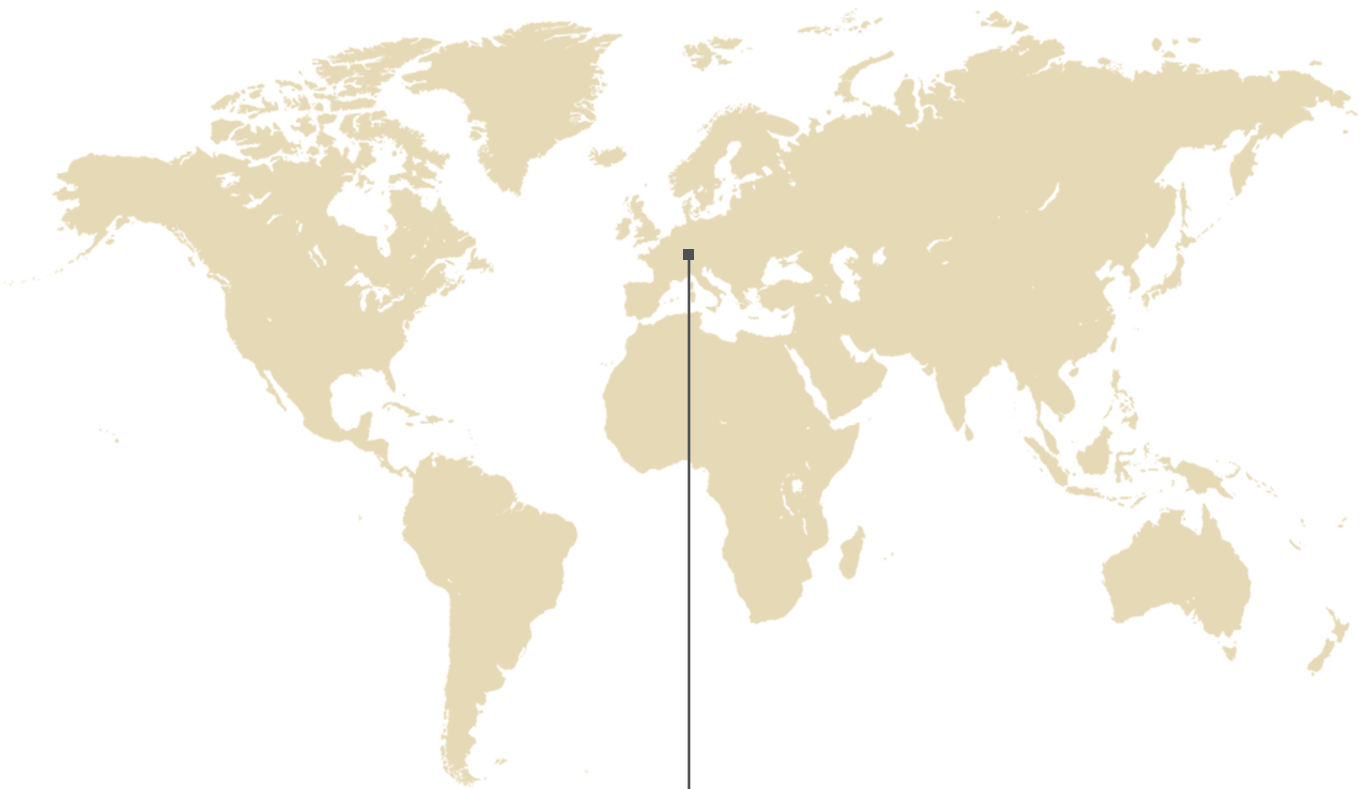
Application areas	Battery separator films (BSF), Breathable films, Micro and nanofiber webs, other engineered materials
Process factors	Polymer 7 fiber type, machine set-ups
Quality factors	Thickness, Functional property, for example lifetime of a Li-battery, performance of a nanofiber, membrane, food packaging etc.



Technical Data

ACA Permi

Dimensions	Measuring unit: 630 x 200 x 200 mm Control unit: 600 x 400 x 200 mm
Measurement type:	continious measurement 80.000 Measurements - 3200 m
one Measurement:	2ms - 0,04m
Output:	2-wire, 3 outputs, 4-20 mA & Ethernet
Measuring Range:	0,02 - 12.000 l/m ² /s Bendtsen = 1 - 50.000 ml/min Coresta = 1 - 40.000 Cu Gurley = 0,02 - 6.000 s Others are available on request .
Weight:	Measuring unit: 13 kg
Power Supply:	100 - 240 VAC, 50/60 Hz / 24 VDC 2A
Air Supply:	6-10 bar, 200 l/min, clean and dry air



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