

# LAB Permi

## LABORATORY POROSITY ANALYZER



AUTOMATIC CALIBRATION

CD CROSS DIRECTION POROSITY TREND

EXTREMELY WIDE MEASUREMENT RANGE

INFORMATIVE AND USER FRIENDLY

TOUCHSCREEN INTERFACE

SIMPLE AND FAST MEASUREMENT

POSSIBLE TO ANALYZE SHEETS, CD  
SAMPLES AND ROLLS

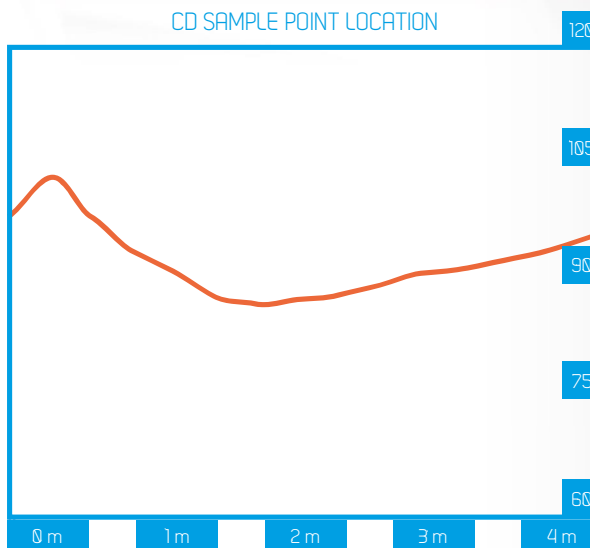
EXCELLENT CORRELATION WITH ACTUAL  
PROCESS CONDITIONS

**POROSITY IS AN OVERALL MEASURE OF PROCESS PERFORMANCE.** Porosity measurement is like Freeness in stock preparation. When porosity is stable, the process is performing well.

When porosity is low, size or coating penetration is reduced and the effect of coating on the paper surface is better. This is important when basis weight is low, coating colour cost is high or when coating low brightness base paper e.g. linerboard

Most instruments (grammage, caliper, ash...) measure and control only one paper property. In addition to final paper porosity, which is an important property for some paper grades, Lab Permi is a universal analyzer of paper quality for most paper grades due to the fact that almost all process parameters have a clear effect on porosity.

CD SAMPLE POINT LOCATION



# LAB Permi

## SPECIFICATIONS



### APPLICATION DATA

Pressure range	Based on main standard used. Typical 1kPa
Flow range	0 - 50 l/min
Measurement time	Typical 5 seconds

### MEASUREMENT VALUES

Air permeance, Statistics, Mean value, Standard deviation, Coefficient of variation, Maximum and minimum values of the series, Date and time, Operator

### OPTIONS

External measurement head for narrow samples, Roughness measuring unit, Automatic paper feeder

### RELATED STANDARDS

APPITA 1301.440, APPITA 1301.420, DIN 53 120, ISO 5636/3, ISO 5636/4, ISO 5636/5, ISO 11 004, NF Q03-Q76, NF Q03-Q78, SCAN P26, SCAN P53, SCAN P60, SCAN P85, TAPPI T460, TAPPI T547

### DIMENSIONS

L * H * W	420 mm * 310 mm * 360 mm
-----------	--------------------------

### CONNECTIONS

Pneumatic air	4 - 8 bar, min. 20 l/min
Water	1 - 4 bar
Power	110 - 240 VAC 50 - 60 Hz

Notice: ACA Systems Oy reserves the right to make changes or improvements to the product without prior notice. 2011 ACA Systems Oy

#### ACA SYSTEMS OY

Outilantie 3, FIN-83750 Sotkuma, Finland

aca@aca.fi Tel. +358 13 569 911 Fax +358 13 569 949

**ACA**  
WWW.ACA.FI