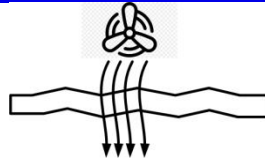


Description



Porosity or air permeability MRP Poro 2015

Online porosity measurement

The continuous monitoring of porosity on running webs is an essential quality feature of the product for many different paper grades.

Porosity is an accumulation of pores and spaces where air can flow through. Therefore, air permeability is usually determined during porosity measurement. With this characteristic value, statements about the absorption (oil, water), the density of the product and filter properties for liquids and gases can be determined.

The air permeability can be represented in different technical units.

- Gurley [sec. / 100 ml]
- Sheffield [kPa]
- Bendtsen [l / min]
- Schopper [ml]

Indicator / Characteristics

The porosity measurement is characterized by the following features:

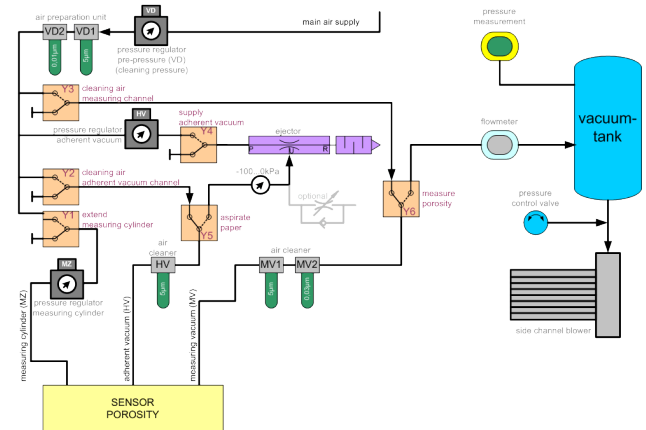
- one-sided measurement with low tightening force
- can be installed in traverses and fixed position scanners
- Self-cleaning functions
- online capable
- applicable in industrial environment
- convertible into various units

Measurement accuracy

Typ	MRP-PORO 2015
Measuring range	5 - 1000 Gs
Resolution	0,1 Gs
Accuracy 2-sigma	0,25Gs
Operating temperature	10°C-70°C

Physical principle

Air is sucked through a known area, which depends on the measuring range of the paper to be examined, through the paper to be measured into the sensor. Here the vacuum and the flow of air is measured.



Both quantities calculated result in a value for the air permeability of the measured material.

