

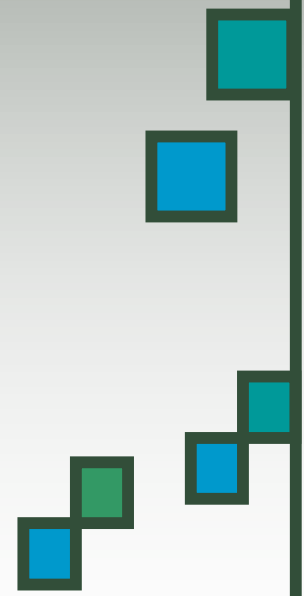
Sales meeting 2002



AKUSTRON

**THE QUICK AND EASY
MEASURING INSTRUMENT
FOR AIR-PERMEABILITY**

1



5-3-2012



AKUSTRON



AKUSTRON

■ Objective and Application:

AKUSTRON is a instrument for quick measuring the air permeability of webbed materials, especially of papers, woven and nonwoven fabrics.

■ Measuring Range:

30 to 3000 l / m² s [Liter per m² and second] or
30 to 3000 mm / s [Millimetre per second]
with $\Delta p = 200$ Pascal pressure difference.

The displayed values and chosen units are in accordance with DIN 53 887 and DIN ISO 9237.

■ Range of Application:

- Production monitoring and control directly at the machine.
- Quick registration of web profiles
- Incoming inspection and final control on site.
- Permanent quality control in the lab.
- Decision aid in dialogues with customers.

AKUSTRON

■ Instrument Description:

- **AKUSTRON is a handy, portable bench appliance. The mechanical parts are made of milled aluminium-plates, the outer case is made from robust plastic, covered by anodised aluminium-plates.**
- **The result of measurement is presented by a microprocessor-controlled digital display with 14,2 mm high, easy-to-read LED signal.**
- **All functions of AKUSTRON are controlled by a hand lever, located at the side of the case.**
- **The measuring instrument has a RS 232 interface, so that the readings can be fed directly into a computer.**
- **AKUSTRON requires a working voltage of 100 to 220 Volt AC, 50 to 60 Hz.**

AKUSTRON

■ Operation:

- **Place AKUSTRON on a flat solid surface and turn hand lever backwards. The instrument must stand clear of all obstructions. The side apertures must not be covered or closed. Please don't place AKUSTRON on an iron surface in order to avoid magnetic influence to the instrument.**
- **Connect the instrument to power supply and switch on. The display will illuminate indicating power on.**
- **Display check. After switching the instrument on, the digital display should read "88888" while the instrument performs a self diagnostic and calibration.**
- **Within a short time the display will change to " _ _ _ _ _ " the instrument is now ready for use.**

AKUSTRON

■ Measuring

- **Switch on AKUSTRON and move the hand lever backwards. The instrument is now open.**
- **Insert sample. Move sample forward until the clamping surfaces are fully covered.**
- **Move hand lever forward to the block. The sample is now clamped and measuring starts automatically.**
- **Take reading. It is recommended to take several readings from one sample (at least 5) and to determine the arithmetic average.**
- **The readings can be fed directly into a computer via the integrated RS 232 interface and an suitable cord connection. The included software is able to list the values into each standard spreadsheet as well as into your already existing quality control program.**

AKUSTRON

■ Check

- **AKUSTRON has a good repetition accuracy and an excellent correlation to standard devices according to DIN 53 887, DIN 53 120 and DIN ISO 9273.**

For a regular check of the accuracy use the optional brass made test-plates.

- **AKUSTRON is designed for a long service life and maintenance free operation. The instrument may safely be left switched on for long periods of time.**

However in order to prolong the life of the mechanical components it is recommended to perform the actual process of measuring for short periods only.

AKUSTRON

- **Measuring range:**
air permeability between
30 and 3000 l/m²·s (litres per m² and
second)
30 and 3000 mm / s (millimetre per second)
with $\Delta p = 200$ Pa pressure difference,
corresponding to DIN 53 887 and
DIN ISO 9237.

The instrument can be reprogrammed to
other, linear calculable units.

- **Physical Properties**

- **Dimensions:** 120 x 250 x 160 mm
- **Weight:** approx. 4 kg
- **Power uptake:** approx. 30 V/A
- **Line voltage:** 120 to 230 V AC,
50 to 60 Hz.
- **Fuse:** 500 mA

Sample:

- **Size:** min. 5 x 12 cm
- **Thickness:** max. 3 mm

- **European patent No.**
0210617