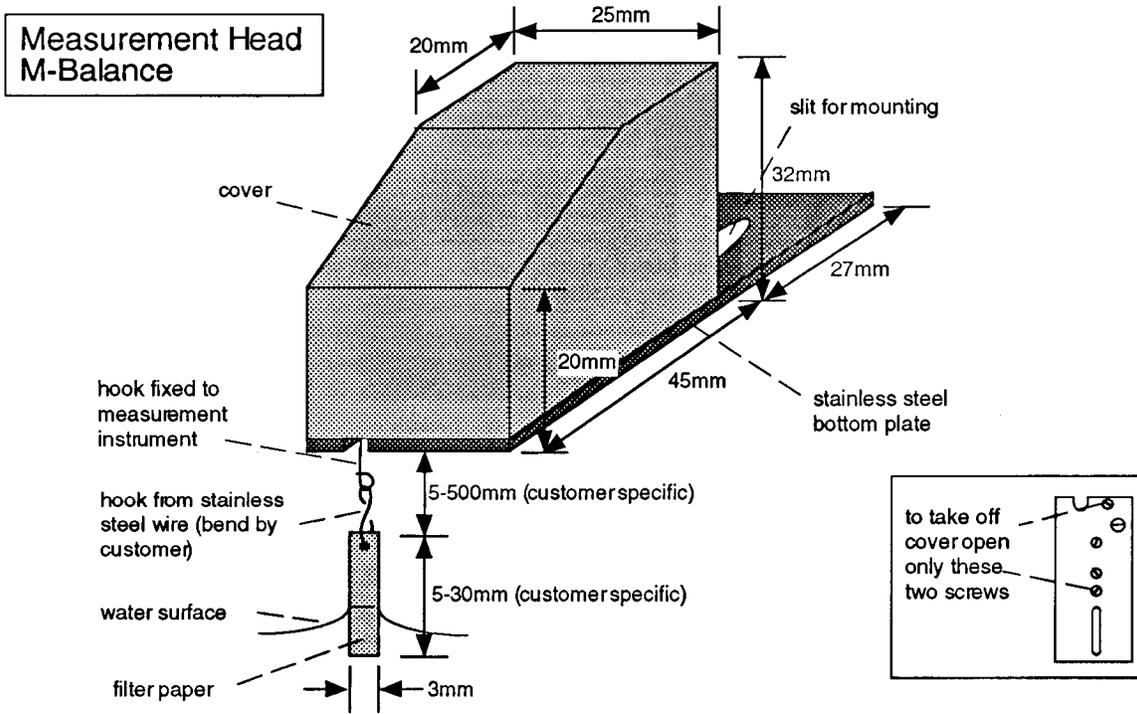




ULTRATHIN ORGANIC FILM TECHNOLOGY

Langmuirtröge - Wilhelmssysteme - Filmlifte - Tauchroboter - Spezialanfertigungen nach Kundenspezifikation



How to use the instrument:

Preparation of the wilhelmy system:

- 1.) turn main power off, cut filter paper (appropriate length, **width approximately 3mm!**), bend ahook and attach both to the hook of the measurement head as shown above.
- 2.) dip filter paper into water.
- 3.) switch on power, the filter paper should be lifted by several mm.

Calibration:

- 4.) with the filter paper soaking wet and just touching the water set "offset" to "0".
- 5.) take the filter paper out of the water (lift the measurement head) and set "calibration" to 72mN/m.
- 6.) resubmerge paper: pressure should be close to "0". That's it for a coarse calibration!
- 7.) for exact calibration: proceed from 1.) to 6.), measure isotherm of a reference substance (e.g. arachidic acid) and adjust "calibration" properly to identified phase transition pressures.

Specifications:

in combination with our measurement electronics (MB-01-E):

Sensitivity $\approx 0.1 \text{ mN/m}$

Long term stability (reproducibility, several hours): $\approx 0.2 \text{ mN/m}$