LEVEL MEASUREMENT - HOSE LEVELLING INSTRUMENT

MED 15.11

Material:

Item-no.	Qty.	Description
DM470-1S	1	Hose levelling instrument

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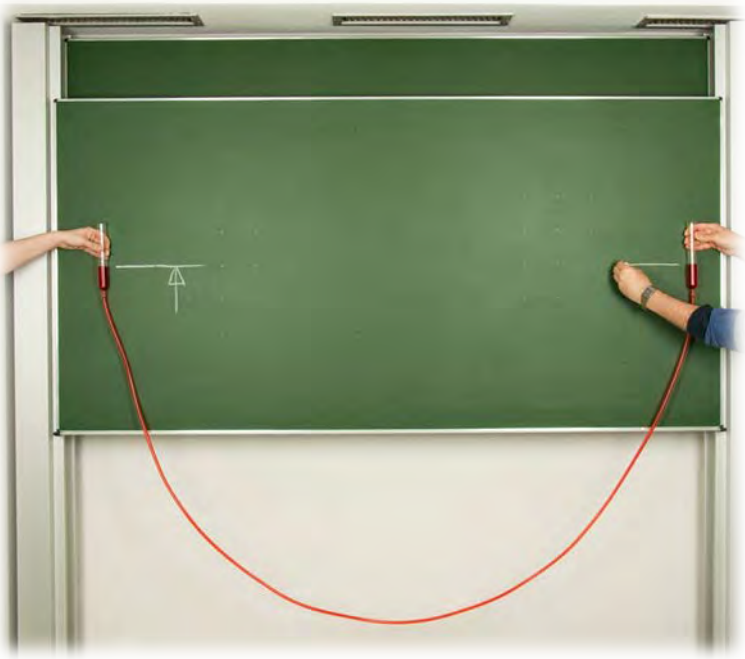
Purpose
Application of the principle of communicating vessels - level measurement

Preparation

- one of the glass vessels of the hose levelling instrument is held by a student or mounted in an universal clamp with magnetic base
- the second glass vessel is detached from those hose
- draw the 120 ml syringe completely up with coloured water
- insert the tip into the open end of the hose and press the water in
- make sure to not create any air bubbles in the hose (if this still happens remove them by shaking the hose)
- if the hose is full the syringe should be held at the level of the (partially filled) glass vessel
- withdraw the syringe at this height and place the second glass vessel on the hose

Experiment
Draw a line at one side of the board to mark the height level.



Now try to achieve the same height level on the other side of the board. If the board is not moved it can be found out whether the board, the floor or the ceiling is actually horizontal!

On the cover picture of this experiment (previous site) it is shown that the two lamps are attached at different height levels.

Note
Another possibility for determining level differences is a spirit level with a laser beam.