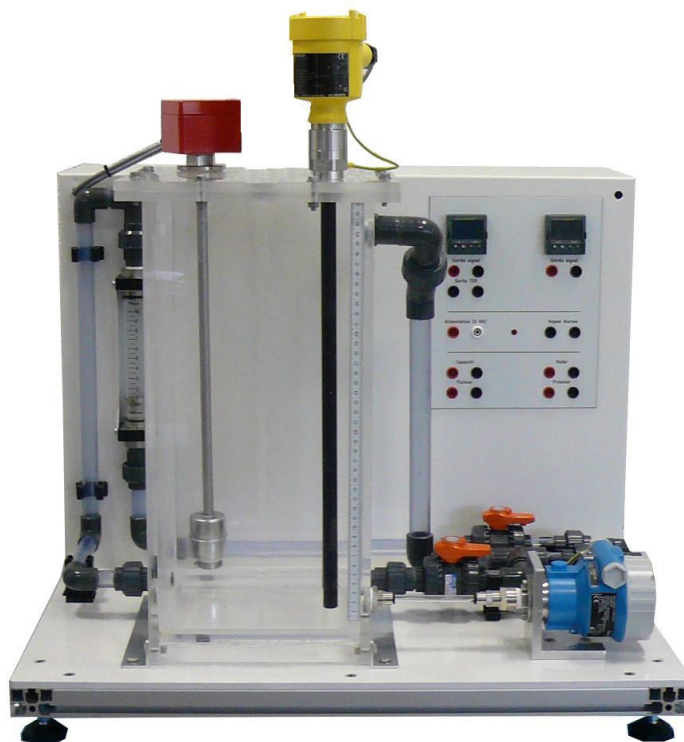


## LIQUID LEVEL MEASUREMENT METHOD STUDY UNIT



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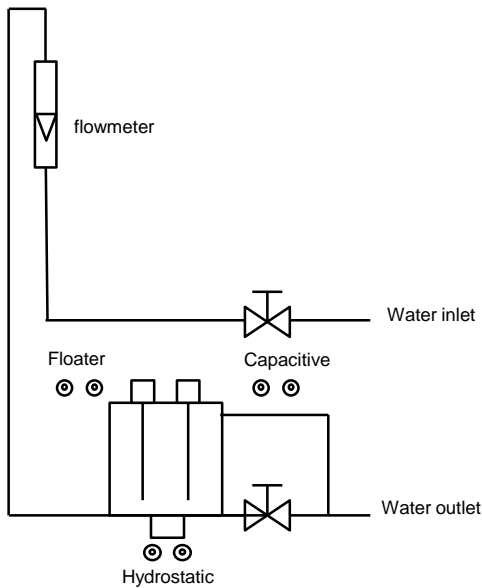
### Experimental capabilities

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- Identification of industrial sensors.
- Work on the output signals
- Wiring of the sensor and of alarm LED
- Calibration of a sensor
- Configuring of an indicator via a software
- Study of a hydrostatic sensor

## Illustrations

## Technical details



### Capacitive measurement

Insulated steel rod

Scale: 0-450 mm

Current output 4/20mA proportional to the level

### Measured by floater

Construction rod and floater in stainless steel 316

Pace of measurement: 10 mm.

Scale: 45 - 455 mm

Signal - output 4-20 mA

### Measurement by hydrostatic pressure

Capacitive cell 0-100mbar

Accuracy:  $\pm 0,2$  % of full scale

Current loop output 4 - 20 mA

### Digital indicator

Two indicators configurable via a PC

Measuring input 4/20mA

One of the two indicators is equipped with a relay output for alarm signal

### Multiturn adjustment valve

## Services required

## Documentation

- Electrical supply : 230VAC – 50 Hz-16A
- Water supply : 10 L/min – 3 bars (supply tank)
- Dimensions: (LxWxH mm): 780 x 570 x 590
- weight (Kg): 40

- User's manual
- Technical documentation of the components
- Certificate of conformity CE

Note : if the equipment installation is operated by our staff, all supplies and exhaust connections required must stand at less than 2m from the machine

# BMN100

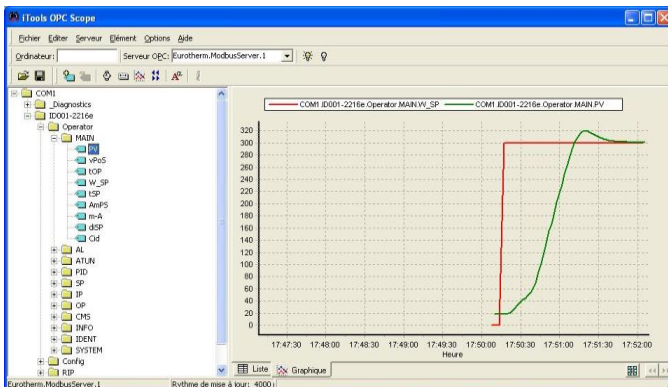
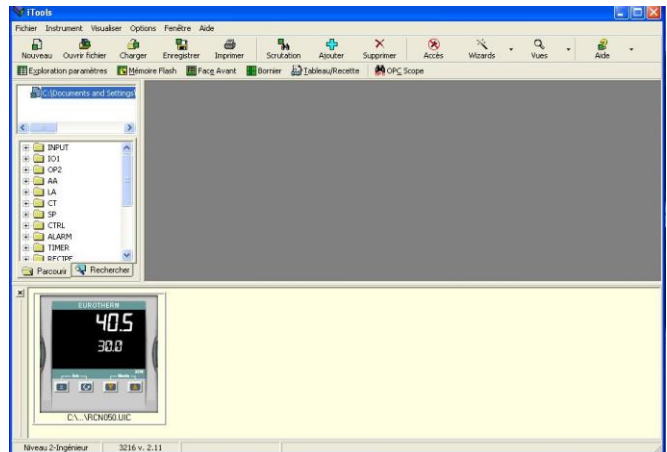


## Setting, Supervision, Plotting curves,

The bench is also equipped as standard with a supervision and setting software. The connection towards the PC is made by a standard USB port. The software is divided into two parts :

### SETTING :

This part provides access to display parameters directly via data explorer similar to Windows. The front of the regulator is reproduced on the PC screen and the operator can operate the buttons and controls as if it were on the pilot



### SUPERVSION, PLOTTING CURVES :

This part allows to draw curves with the regulator's signals. For example in this image here one visualizes the setpoint and the real-time measurement, but it is possible to add other parameters such as the output signal ...