

## UH-2 Universal Hygrometer

### Application

The system has been designed for the measurement of water vapour in emitters, especially where there is high content of water vapour (e.g. refuse incineration plants with wet purification system of fumes). This system is also suitable in other difficult conditions.

The system sucks in a sample of gas from the emitter, cools or heats up to selected temperature and measures moisture content in gas. The system can be also used in the systems where gases are purified by wet methods. The sample taken from the emitter is supplied to measuring system through heated line and then cooled depending on humidity up to temperature 40°C ÷ 80°C. Temperature is selected in the way that humidity of gas tested does not exceed 80% RH what allows high accuracy of measurement and prevents condensation. Hygrometer consists of two elements that is measuring system and power supply system.

Measuring system is fixed directly on emitter using head M64x4 or is hand-held during momentary measurements. The system displays data about relative humidity measured and the temperature in which the measurement was taken as well as conversion results are given it means percentage water vapour content and dew point temperature.

**The system has the calibration certificate from an accredited laboratory that executes calibrations.**



### Technical data

- Measuring range of water vapour content
  - max up to 50 %vol.
- Maximum gas input temperature
  - optional 300g/m<sup>3</sup>
- Working temperature of measuring chamber 250°C
- Weight of measuring system with head
  - Power supply adapter 400°C
- Working temperature 40°C ÷ 80°C
- Power supply ok. 3 kg
- Power supply adapter ok. 1 kg
- Working temperature – 10<sup>0</sup> – 50<sup>0</sup> C
- Power supply 230 V 50 Hz