

## Measuring temperature, humidity, CO2 and more

People who work in a healthy environment are more productive. Recent research has shown that a healthy indoor climate may enhance learning performance at school and work performance in offices. You can determine the air quality and ventilation by checking the CO2 value. Also in applications as horticulture it is important to monitor the greenhouse climate. It helps growers to increase their turn-over as they gain more insight into the microclimate in their greenhouses. In addition to determining the indoor climate, there are many conceivable situations where it is important to obtain reliable information on the outdoor climate.

There are various conceivable situations where it is important to closely monitor the climate in a particular space or environment. For example, the climate in an office or a school.



### Applications climate monitoring

Monitoring the indoor climate in trains

Monitoring air quality in offices / schools

Determining optimal climate for greenhouses

Climate control in shops and museums

Monitoring temperature in server rooms

Regulating the climate in medical institutions

Weather stations

The WiSensys® platform uses the license free ISM bandwidth. For Europe we use 868Mhz (code WSE) and for the rest of the world we use 915Mhz (WSW)

You can use the WiSensys® platform to accurately monitor the climate in a given environment. You can connect various sensors to the system. In the field of climate monitoring, the WiSensys® platform provides sensors for measuring:

- Temperature
- Humidity
- CO2
- Wind speed
- Wind direction
- Rain quantity
- Rainfall intensity



### Sensor WSE-DLTi

WSE-DLTi measures temperature. Sensing is done using an internal digital sensor.

**Measurement range:** -20°C - +80°C

**Accuracy:** +/- 0,5°C

**Housing:** IP 65

### Sensor WSE-DLTc

WSE-DLTc measures humidity and temperature. Sensing is done using an internal digital sensor.

**Measurement range:** RH% 10% - 100% non-condensing;

**T:** -20°C to +80°C

**Accuracy:** RH% +/- 1,8% from 10% to 90%; T +/- 0,3°C

**Housing:** IP 65

### Sensor WSE-DLTa-p100 / WSE-DLTa-p1000

WSE-DLTa-p100 /p1000 measure temperature. Sensing is done using a PT100 / PT1000 sensor.

**Measurement range:** -150°C - +200°C

**Accuracy:** +/- 0,1°C excluding the PT100/PT1000 element

**Housing:** IP 65

### Sensor WSE-DLC

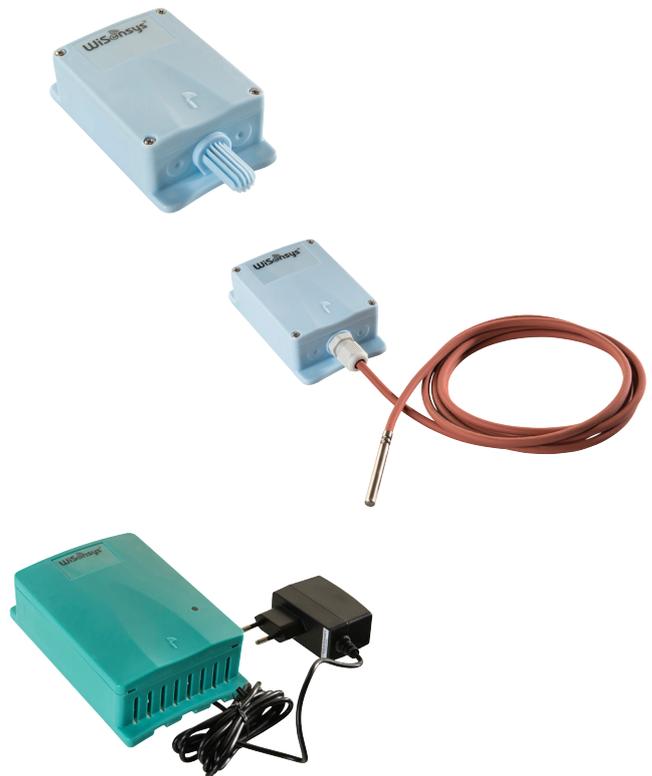
WSE-DLC measures CO2, humidity and temperature. The CO2 sensor is optional with 0 ppm - 50.000 ppm.

**Measurement range:** CO2 0 ppm - 20.000 ppm;

**RH%:** 10% - 100% non condensing ; T - 20°C to +80°C

**Accuracy:** CO2 +/- 40 ppm + 3%;

**RH%:** +/- 1,8% from 10% to 90%; T +/- 0,3°C



### Sensor WSE-DLTi-chain

WSE-DLTi-chain measures 2 to 6 temperatures. Sensing is done by using extended probes with RJ11 connectors.

**Measurement range:** -20°C - +80°C

**Accuracy:** ±0.5°C from -10°C to +80°C ±1°C otherwise

**Housing:** IP 65