



WWS 100

Temperature, CO₂ and humidity sensor with ventilation keypad and WSK-Link™



Natural
ventilation

Application

Indoor sensor for air quality monitoring by means of temperature, CO₂ level and relative humidity measurement. Typically, one sensor per room/zone is used but multiple sensors can be used in the same room/zone if e.g. minimum, maximum and mean values are requested. In addition to sensor functionalities, the unit also has a push-button for simultaneous operation of all windows or selected motor groups in the room/zone; e.g. Close or open all windows.

The sensor is connected to a WindowMaster controller of types WCC 310 PLUS, WCC 320 PLUS, WSC 310 PLUS or WSC 320 PLUS via WSK-Link™. It can be connected to up to 15 sensors per controller.

WSK-Link™ is WindowMaster's effective, proprietary serial data networks protocol that integrates power supply and (serial) data communication in a three-conductor cable. WSK-Link™ is used for data communication between WindowMaster's latest generation of controllers, sensors and break glass alarms.

The maximum cable length must not exceed 200 metres and devices must not be connected in a ring bus system.

WWS 100 is specifically designed as room sensor in NV Embedded® solutions.

Specificationer

- Temperature range measured: 0-50°C.
- CO₂ range measured: 400-2000 ppm.
- Relative humidity range measured: 0-100%.
- Measurements will be sent directly to the controller via WSK-Link™.

Guideline for the carbon dioxide concentration in rooms

| CO ₂ -concentration | Assessment of air quality |
|--------------------------------|---------------------------|
| < 800 pmm | Good |
| 800-1400 pmm | Moderately |
| > 1400 pmm | Low / Unhealthy |

Temperature, CO₂ and humidity sensor with ventilation keypad and WSK-Link™

| Technical specifications | |
|----------------------------------|---|
| Power consumption | 2mA |
| Power supply | via WSK-Link™ |
| Connection | WSK-Link™, via MotorController type WCC 310 / WCC 320 or fire central type WSC 310 / WSC 320 |
| Operating conditions | 0°C - +50°C, for indoor wall mounting and must not be installed in dusty environments or covered |
| Materials | Self-extinguishing thermoplastic |
| Colour | Studio white (corresponding to RAL 9016) |
| Dimensions | 83 x 114 x 24mm (W x H x D) |
| Weight | 114 g |
| CO ₂ accuracy | ±150 ppm during product life cycle at 25°C and 950 - 1050 hPa |
| Calibration | Factory calibrated for higher than ±50 ppm at 600 ppm and 1000 ppm. Auto-calibration using ABC logic™ |
| Measurement of relative humidity | 1 - 100% ±3% at 25°C |
| Measurement of temperature | 0°C - 50°C, ±0,5°C at 25°C and ±1°C at 0..50°C |
| Operation | Must not be exposed to mechanical shock or excessive vibration |
| Cabling class | IP20, Class III (SELV/PELF) |
| Delivery | Sensor |
| Reservations | Subject to technical changes |

| Variants | Item no. |
|--|----------|
| Temperature, CO ₂ and humidity sensor – WSK-Link™ | WWS 100 |