

Further possibilities with the PD2N-KNXs-OCCULOG

RGB HCL

Control of the light colour

- Integrated HCL control: three standard light curves can be selected: Industrial, Office and School
- Implementation of HCL control with DALI Device type 8 luminaires and DALI-KNX Gateway
- RGB control for colour-matched ambient lighting



Presence detection and brightness sensors

- Individual sensitivity adjustment of PIR sensor
- Mixed light measurement via interior, exterior and remote (optional) light sensors
- Intelligent semi-automatic mode, presence-independent control mode (twilight detector), Full-automatic operation
- 1x light (controllable or switchable), 1x slave output, 3x HVAC outputs (independent)
- Control of up to three lighting groups via offset (external influence possible)
- Short presence, self-adjustment of follow-up time, corridor function
- Two logic modules
- Extensive optimisation options for light measurement
- Output of the measured light value on the bus
- Bi-directional remote control with the IR adapter and the B.E.G. One app or optional IR remote control
- Manual control possible via external KNX push-button
- Additional sound sensor for presence detection

For a controlled and healthy indoor climate...



... the OCCULOG® PD2N VOC ceiling sensor

The all-rounder for building automation

The monitoring device for a healthy indoor climate

The control for a healthy indoor climate

Measured values for air quality

VOC (volatile organic compounds)

Volatile organic compounds are gaseous and vaporous substances in the air, such as hydrocarbons, alcohols, aldehydes and organic acids. These are normal components of indoor air in buildings.

CO₂

Carbon dioxide is a natural component of the air, it accumulates indoors mainly through the air breathed by living beings. However, too much carbon dioxide in indoor air can be harmful.

According to studies, a significantly increased CO₂ concentration and / or lack of ventilation in indoor spaces leads to a severe and avoidable impairment of brain performance – especially in decision-making and complex, strategic thinking – in spaces such as classrooms.

Intuitive and clear:

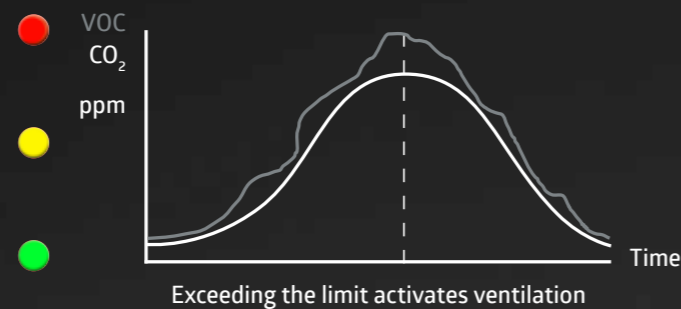
The coloured LED indicator allows the current air quality to be quickly recognised from a distance by means of the traffic light colours.

- Ventilation mandatory
- Ventilation recommended
- Good air quality



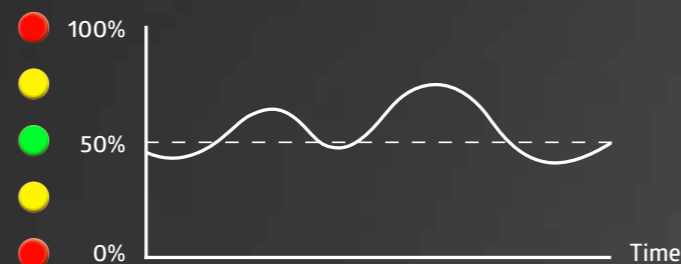
Measurement of air quality (VOC / CO₂eq)

- Air quality measurement method VOC or CO₂equivalent
- Four limit values for air quality
- Display (traffic light) for air quality
- Output of air quality (ppm) to the bus



Measurement of humidity

- Control of humidity
- Four limit values for humidity
- Display (traffic light) for humidity
- Output of rel. humidity (%) to the bus



Temperature control

- Control of temperature (heating / cooling)
- PI controller (continuous), 2-point controller %, 2-point switching, PWM
- Control or step mode
- Preset temperature curves for different heating / cooling systems
- Output of temperature (°C) to the bus
- Additional heating / cooling stage can be activated
- Different operating modes (prioritised)
- Dew point determination
- Set value limitation (temperature) via outside temperature possible
- Feedback as bit, byte and RHCC format
- HVAC mode (1 = Comfort, 2 = Standby, 3 = Economy, 4 = Frost / heat protection)
- Temperature ranges adjustable via KNX: Hot water, underfloor and electric heating, fan coil unit, split unit (air conditioning with outdoor unit)

Description	Colour	Art. no.
PD2N-KNXs-OCCULOG-DX-FC	white	93530
PD2N-KNXs-OCCULOG-DX-FM	white	93531

