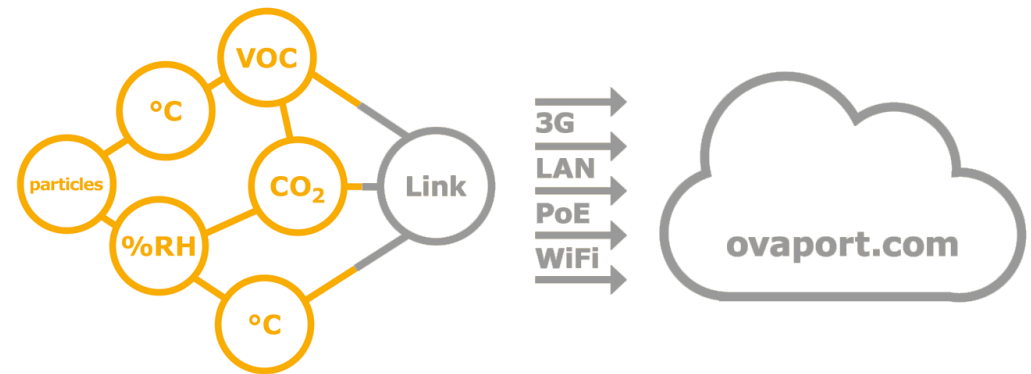




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NOKEVAL

Ovazone Core Series

Wireless Indoor Air Quality Transmitter for Temperature, Humidity, Illuminance and CO₂ measurements



- Measures temperature, humidity and illuminance
- Model for also CO₂ measurements
- Network node in a 2.4GHz wireless mesh network
- Ultra-low-power, years of battery life
- Tens to hundreds of meters of transmission range
- Indicator LEDs for transmission and low battery
- Easy-to-replace battery
- Wall mountable with wall mount base

IAQ measurements have never been easier. Device is part of a wireless mesh network which enables limitless count of measurement nodes. It uses 2.4 GHz license free ISM frequency. Each node acts as a router on a network and transmits measurement results towards a link station, which

sends the data either to OVA cloud service or to a programmable logic. The network is auto configuring and self-healing. Device operates with one D size battery and it also has micro-USB power input for non-battery operating in which case the battery acts as a backup power source.

Ovazone-Core-T-RH-LUX

Temperature, Humidity and Illumination transmitter

Ovazone-Core-T-RH-LUX-CO2

Temperature, Humidity, Illumination and Carbon dioxide transmitter



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Specifications

ENVIRONMENT	
Storage temperature	-40...+70°C
Operating temperature	+5...+60 °C
Humidity	5...95 %RH non-condensing
Protection class	IP30
Case material	Plastic (ABS+PC)
DIMENSIONS (WALL MOUNTED)	
Height	160 mm
Width	100 mm
Depth	45 mm
Weight	370-390g depending on the model
POWER	
Battery	One LR20 / D Size 1.5 V alkaline cell
Battery life	Several months up to 7 years depending on model
Auxiliary power	Optional micro-USB power input
Additional features	Power switch and test mode button
RADIO	
Frequency	2.4 GHz worldwide license-free ISM band
Power	max 5 dBm E.R.P.
Open space range	200 m maximum
Indoor range	10 to 30 m typical (node to node)
Antenna	Internal

MEASUREMENTS (BASE MODEL)	
Temperature measuring range	-25...+60 °C
Temperature accuracy	±0.5 °C in range of +15...+35 °C
Humidity measuring range	0...95 %RH non-condensing
Humidity accuracy	±5 %RH in the range of +5...+50 °C
Illuminance measuring range	0...2000 lx
Illuminance accuracy	Only for purpose of identifying if the lights are on or if it is sunny
MEASUREMENTS (WITH FACTORY INSTALLED OPTION CARDS)	
CO2 measuring range	0...2000 ppm
CO2 accuracy	±50 ppm + 3% of reading
EXAMPLES OF POSSIBLE MODEL COMBINATIONS	
Ovazone-Core-T-RH-LUX (base model)	
Ovazone-Core-T-RH-LUX-CO2	
Ovazone-Core-Router (for radio network expansion purposes)	
See the manual for all possible combinations	

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