TI	Technical Information	BELIMO
	Room Air Quality (VOC) Sensor with Active Output	

The Series is designed to measure the air quality in rooms or areas

The air quality is measured based on VOC levels (VOC= volatile organic compounds)

The sensor operates with low power supply

The air quality sensor output is active

Sensor Specification

Sensor Specification	Measured	VOC
	Sensor Characteristics	Active
	Sensor Output (s)	0…10V
	Sensor Type	Mixed Gas Sensor - heated metal oxide
	Output Load	Min. load 5kΩ @ AC/DC 24V
	Accuracy	n/a
	Measuring Range (s)	0…100% VOC

Technical Information

Electrical Information	Power Supply	AC/DC 24V (±10%)
	Frequency	50 / 60 Hz at AC 24V
	Terminal Clamp	Screw terminal, max. 1.5mm²
	Power Consumption	≤ 1.2W / AC 24V; ≤ 2.2 VA / DC 24V
User Interface	n/a	n/a
Mechanical Information	Cable Entry	~30mm x 10mm on the backside
Color and Materials	Housing Cover	White ASA, RAL 9010 (Pure White)
	Housing Bottom	White ASA, RAL 9010 (Pure White)
	User Element	White ASA, RAL 9010 (Pure White)
Environmental Conditions	Operation Temperature	0ºC...+50ºC
	Operation Humidity	<85 % r.h., no condensation
	Transport Temperature	-35ºC...+70ºC IP20
	Transport Humidity	< 90% r.h.
	Storage Humidity	< 85% r.h., no condensation
Norms and Directives	IP- Rating	IP20 to IEC60529
	Safety Class	III to EN 60 730
	CE Conformities to	2004/108/EG Electromagnetic Compatibility EMV
	CE Electromagnetic Compatibility Emitted Interference	2000/EN60730-1 Emitted Interference
	CE Electromagnetic Compatibility Interference resistance	2000/EN60730-1 Interference Resistance
	RoHS Compatibility	RoHS 3, Directive 2015/863
	Operation Climatic Condition	IEC 60 721-3-3
	Operation Mechanical Condition	IEC 60 721-3-2 to class2M2
	Transport to Climatic Condition	IEC 60 721-3-2
	Transport Mechanical Condition	IEC 60 721-3-2 to class2M2
	Storage Climatic Condition	IEC 60 721-3-1
	Storage Mechanical Condition	IEC 60 721-3-1 to class2M2

Product Range

Order Code	Power Supply	Sensor Type	Sensor Output	Measuring Range	Air Quality	Protection
EXT-TN-1066654	AC/DC 24V (±10%)	VOC (Mixed Gas Sensor - heated metal oxide)	0…10V	0..100% VOC	0…4V good air quality ; 4…7V Standard Air Quality ; 7…10V bad Air quality	IP20

Advices

Installation Notes

Caution

Observe the following general regulation for engineering and implementation:

All relevant national and heavy power regulations

Other country specific regulations

Country-specific regulations

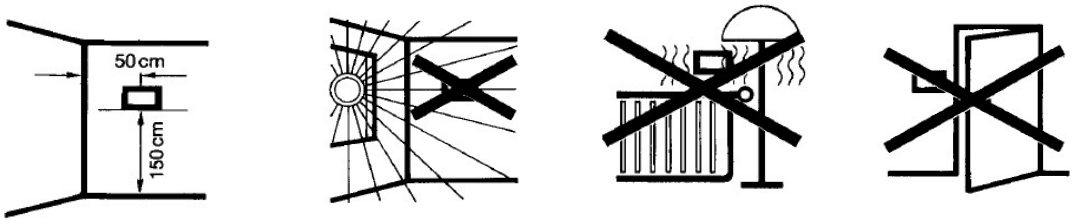
Local electrical supply authority regulations

Schematics, cable listings, dispositions, specification and arrangements from the customer or engineering office in charge

Third party specifications, e.g. general contractors or constructors.

Mounting Advices

Caution



Disposal Notes

The device is considered an electronic device for disposal in terms of the EUROPEAN DIRECTIVE 2012/19/EU.

The device may not be disposed as domestic garbage.

The device must be disposed through channels provided for this purpose.

It is mandatory to comply with local currently applying laws and regulations.

Calibration Notes

Caution

The devices must be at the first use calibrated

Calibrate the sensor after the sensor was 30 minutes powered up

The air must be free of any taste of bad odor

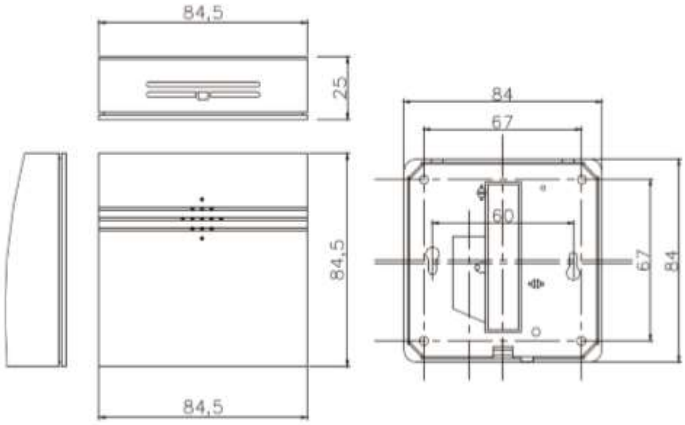
If the LED is green illuminated, the sensor is calibrated and setup

If the LED red is illuminated, turn the calibration potentiometer until the LED changes to green.

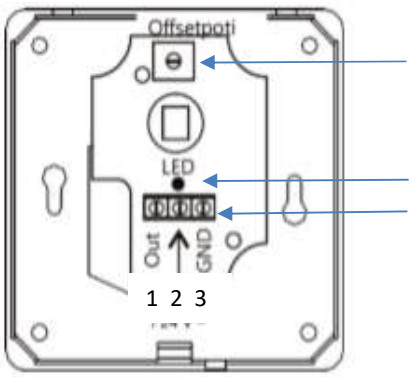
Than the sensor is calibrated and setup

This calibration can be repeated at any time during operation

Dimensional Drawing



Connections & Settings



OFF Set Potentiometer

Calibration LED

Connection Terminals

T1 VOC

T2 UB+ (24V AC/DC)

T3 Ground