

## Description

Wireless receiver is used with our Wireless Sensors.


The receiver is placed out of the ventilation unit, heat pump etc. where it works as an antenna. The received signals are communicated to the control unit via ModBus. If only 1 sensor is to be connected the signal can also be chosen to be communicated as a 0-10V output signal.

When the receiver communicates via ModBus it is possible to connect up to 16 wireless sensors per receiver.

Wireless receiver can also be used to emulate up to 5 wired ModBus sensors.



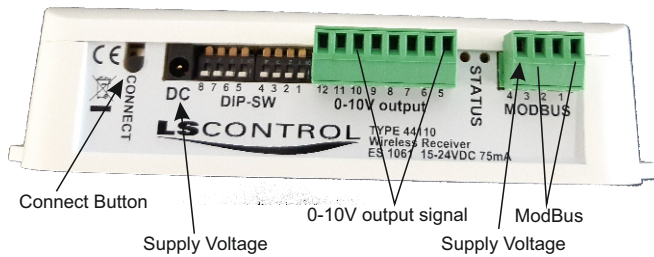
## Warning

 ESD-Sensitive when lid is removed. Be certain to be ESD-discharged, so product isn't harmed.

## Mounting

Must be mounted on a level, stable non-moving nor vibrating surface in a non-condensating environment. Avoid direct sunlight and thermal stress.

## Connection



Connect Button

Supply Voltage

0-10V output signal

Supply Voltage

## 0-10V output terminals

Terminal No.	Description
5	0-10V out. Temperature (0-50°C)
6	GND (0V)
7	0-10V out. Relative Humidity (0-100%)
8	GND (0V)
9	0-10V out. CO <sub>2</sub> (0-2000ppm)
10	GND (0V)
11	No function. For future use
12	

0-10V output can only be used for sensor 0 and not in connection with emulation mode or ModBus.

## Modbus terminals

Terminal No.	Description
1	ModBus A (D+)
2	ModBus B (D-)
3	GND (0V)
4	15-24V DC (only if DC-plug is not used)

## Technical Specifications

Supply: 15-24V DC  
Enclosure: IP 20  
Dimension (HxWxD): 86x154x34 mm

Number of 0-10V Output: 4  
Communication Protocol: ModBus  
Communication Interface: MiWi 868MHz



## DIP settings for use with ModBus

Baud rate	Sw1	Mode	RTU
9600	OFF		
19200	ON	Data bits	8

Parity	Stop bit	SW6	SW5
Even	1	OFF	OFF
ODD	1	OFF	ON
NONE	2	ON	OFF
NONE	1	ON	ON

## DIP settings for normal mode and emulation mode with wired ModBus sensors

	Node-ID	SW2	SW3	SW4
Emulation Mode (Emulation of wired sensors)	102-106 (Note 1)	OFF	OFF	OFF
Normal Mode	102	ON	OFF	OFF
	103	OFF	ON	OFF
	104	ON	ON	OFF
	105	OFF	OFF	ON
	106	ON	OFF	ON
	4	OFF	ON	ON
	5	ON	ON	ON

## Note 1: (Emulation mode)

ID102 = Sensor1      ID105 = Sensor4  
ID103 = Sensor2      ID106 = Sensor5  
ID104 = Sensor3

## ModBus Register

For further description and description of ModBus registers please refer to the manual. The manual can be downloaded by scanning the QR-code in bottom left corner or on the product. It can also be downloaded from our web-page.

Date: 08/05-2023  
Drawn by: BJ/DF  
Document No.: 949-208826 Wireless Receiver ModBus/0-10V ES1061  
Rev.: 1.0  
Manufactured by: LS Control A/S, Industrivej 12, DK-4160 Herlufmagle



QR-code for download of manual.