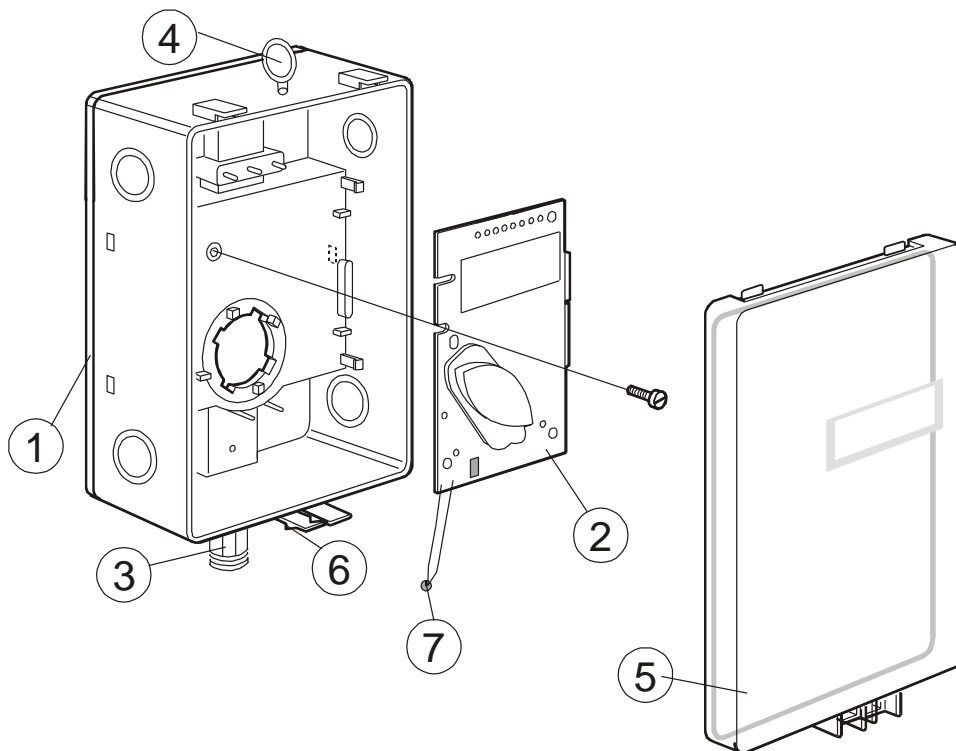


## Installation Manual

# **aSENSE GH (Disp) RL**

CO<sub>2</sub> / temperature transmitter with relay  
for use in greenhouses



1 Back plate

2 PCB (mounted in the box at delivery)

3 PG7 Cable entry bushing

4 Attachment loop

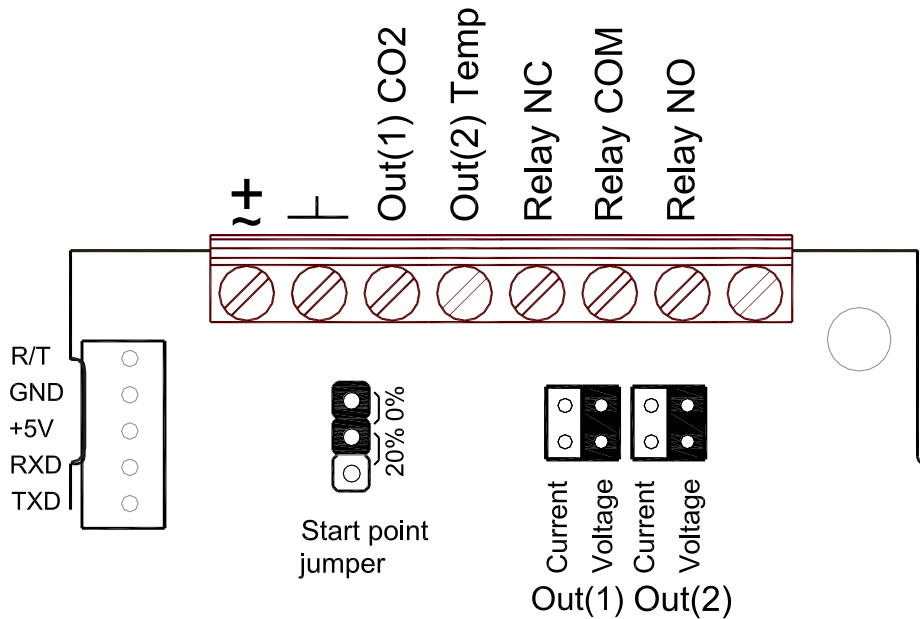
5 Snap-in lid

6 Lid locking screw (not shown)

7 Temperature sensor

**If the connection cables are drawn through a conduit the conduit must be sealed.**

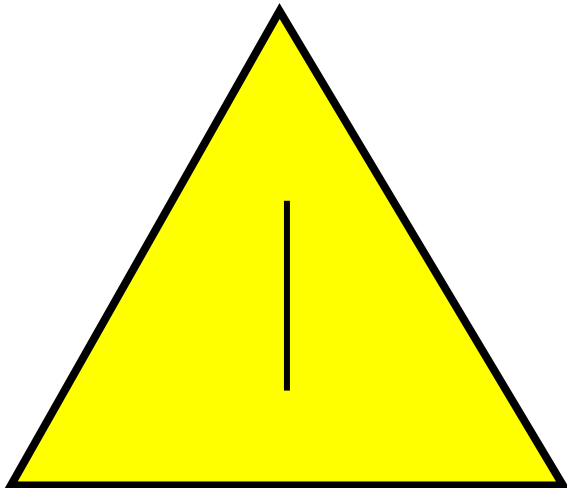
**Air of different temperature may otherwise disturb the temperature measurements.**



Terminals and jumpers on *aSENSE GH (Disp) RL*. Darker positions are default settings

## Electrical connections

The **power supply** has to be connected to  $\sim$  and  $\perp$ .  $\perp$  is considered as system ground. If analogue output is connected to a controller *same ground reference has to be used for aSENSE GH (Disp) RL unit and for control system!* If different transformers are used, special precautions need to be taken.



**PLEASE NOTE!** Same ground reference has to be used for *aSENSE GH (Disp) RL*

**Connect analogue output before measuring.**

Connection Terminal	Function	Electrical Data	Remarks
~ +	Power (+)	24 VAC/DC+ (+-20%), 3W	2W without output load
⊥	Power ground (-)	24 VAC/DC-	See note 1!
Out(1) CO <sub>2</sub>	Analogue Output 1 (+) 0-2000 ppm See label for non-standard	0-10 VDC or 0-20 mA, 2-10 VDC or 4-20 mA,	According to positions of Out(1) and start point jumpers. See note 2!
Out(2) Temp	Analogue Output 2 (+) 0-50 °C See label for non-standard	Same as Output 1	According to positions of Out(2) and start point jumpers. See note 2 and 3!
5	Normally closed relay	Contact free relay minimum load 1mA/5V rated load 0,5A/125VAC; 1A/24VDC	Triggered by register Out(3) Standard relay ON/OFF 1000/900 ppm CO <sub>2</sub> See label for non-standard
6	Relay COM		
7	Normally open relay		
8	Not used		

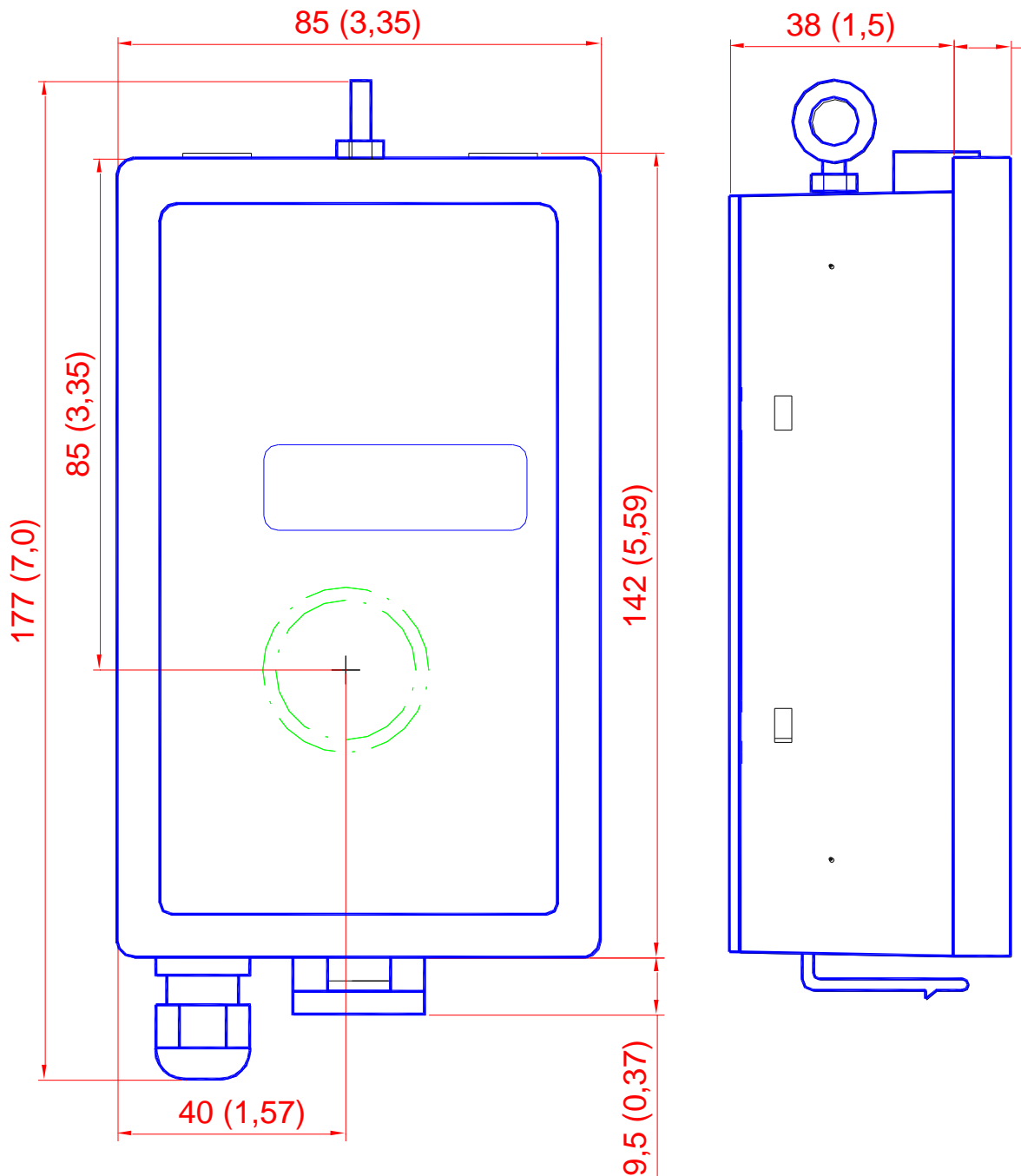
Table 1: Electrical connections

**Note 1:** The ground terminal is used as negative power supply DC input or AC phase ground ⊥ (halfwave rectifier). A single transformer may be used for the entire system.

**Note 2:** aSENSE GH (Disp) RL can deliver a voltage or a current loop for Out(1) / Out(2). To change between voltage and current output mode the hardware jumpers are used. There is one jumper for Out(1) and one for Out(2), so that one output can be a voltage output and the other a current output. Both, voltage output and current output can have start points 0 % (0-10 VDC or 0-20mA) or 20% (2-10 VDC or 4-20mA). The same start point is used for both outputs. See user manual.

**Note 3:** Please use voltage outputs for temperature measurements. The accuracy of temperature measurements is valid only for units configured in voltage outputs mode.

## Dimensions and holes



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