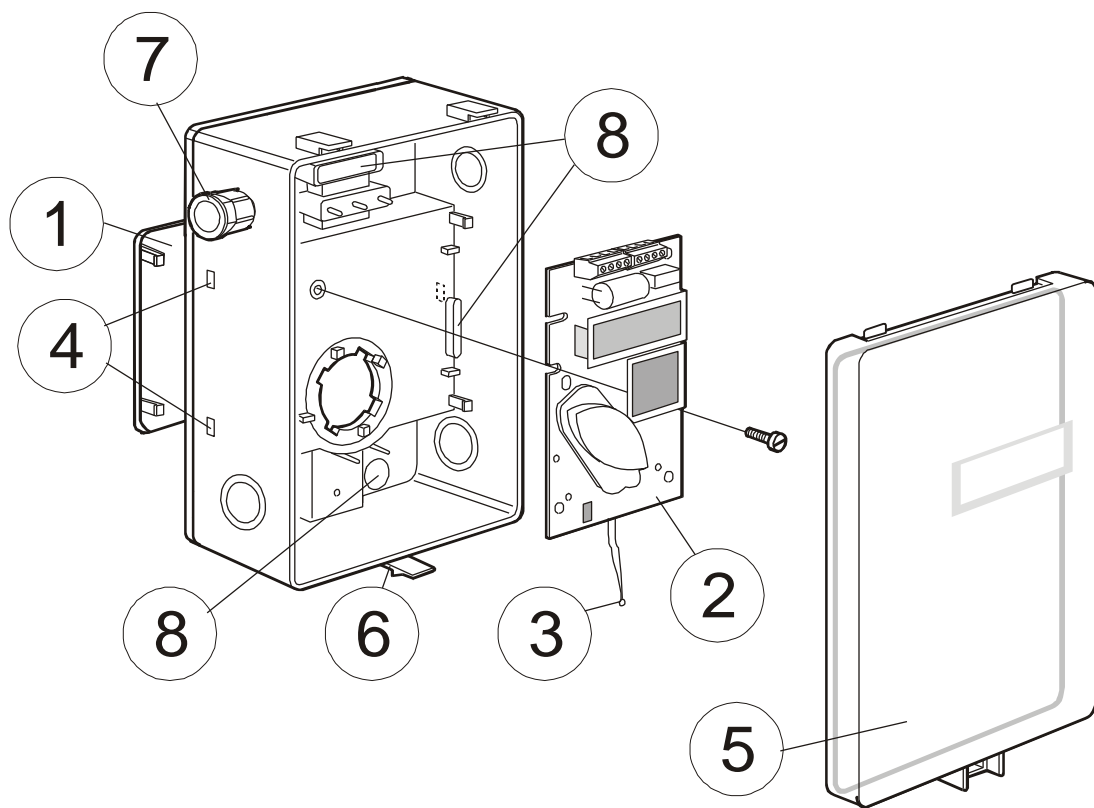


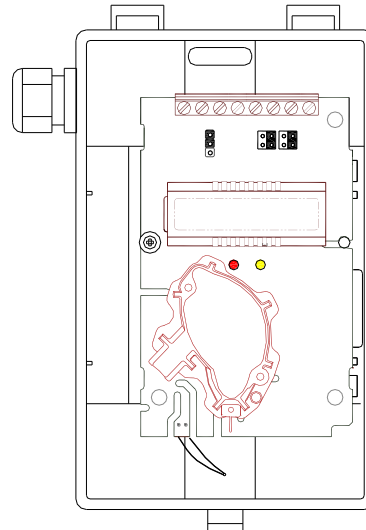
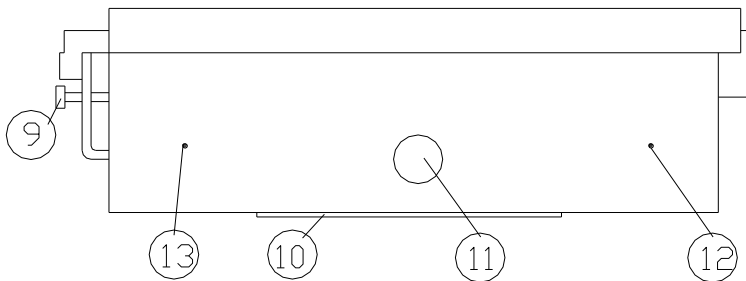
Installation Manual

aSENSE Ind RL

CO₂ / temperature sensor
in industrial housing



- | | | | |
|---|---------------------------------------|---|--------------------------------------|
| 1 | Wall plate | 5 | Snap-in lid |
| 2 | PCB (Factory supplied mounted in box) | 6 | Locking screw of the lid (not shown) |
| 3 | Temperature sensor | 7 | PG9 cable entry bushing |
| 4 | Hole for wall plate hooks | 8 | Air holes |



- 9 Locking screw
- 10 Wall plate
- 11 Locking screw
- 12 Drill mark for cable entry bushing
- 13 Drill mark for cable entry bushing

Dismounting the wall plate

The sensor is delivered with the wall plate mounted. The wall plate has to be removed before the sensor is mounted onto the wall. Unscrew the screw on the side of the box.

Wall Mounting Instruction






Normally the PCB should not be removed from the housing. If the PCB must be removed it must be handled carefully and protected from electrostatic discharge.


- 1) **Electrical cable entry:** The box has a factory mounted cable entry bushing in dimension PG9. Never feed more than one cable through each cable entry bushing, or else gas might leak through!
- 2) **Screw the wall plate onto the wall:** The wall plate has holes for three screws. Drill holes for 3.5mm screws and put dowel into them. Dowels and screws 3.5 x 25mm are included in a plastic bag
- 3) **Attaching the sensor box to the wall plate** is done by a snap-in fitting. The wall plate has three hooks that fit in holes in the sensor box. Fasten the screw on the side of the box.
- 4) **The lid can be locked** with the screw at the bottom of the sensor box.

Electrical connections



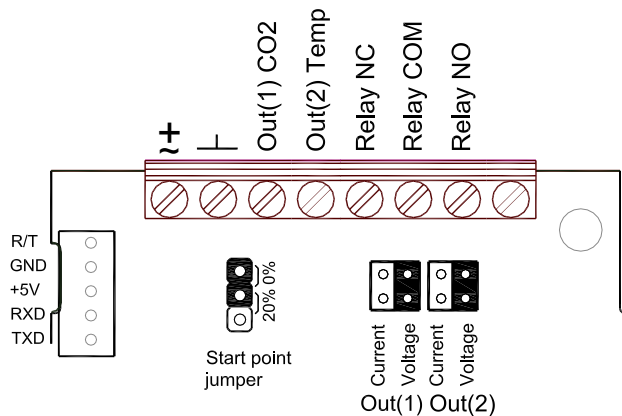
Power supply has to be connected to \sim \oplus and \ominus . \ominus is considered as system ground. If analogue output is connected to a controller *the same ground reference has to be used for the aSENSE RL unit and for the control system!* aSENSE RL signal ground *is not* galvanically separated from aSENSE RL power supply. Connect power after mounting. Analogue output should be connected before measuring. Unless different transformers are used, special precautions need to be taken.

Connection Terminal	Function	Electrical Data	Remarks
  	Power (+) Power ground (-)	24 VAC/DC+ (+-20%), 1W 24 VAC/DC-	See note 1!
Out(1) CO ₂	Analogue Output 1 (+) Standard 0—2000 ppm See label for non-standard	0-10 VDC or 0—20 mA, 2—10 VDC or 4—20 mA or See label for non-standard	According to positions of Out(1) and start point jumpers. See note 2!
Out(2) Temp	Analogue Output 2 (+) Standard 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!
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 ₂ See label for non-standard
6	Relay COM		
7	Normally open relay		
8	Not used		

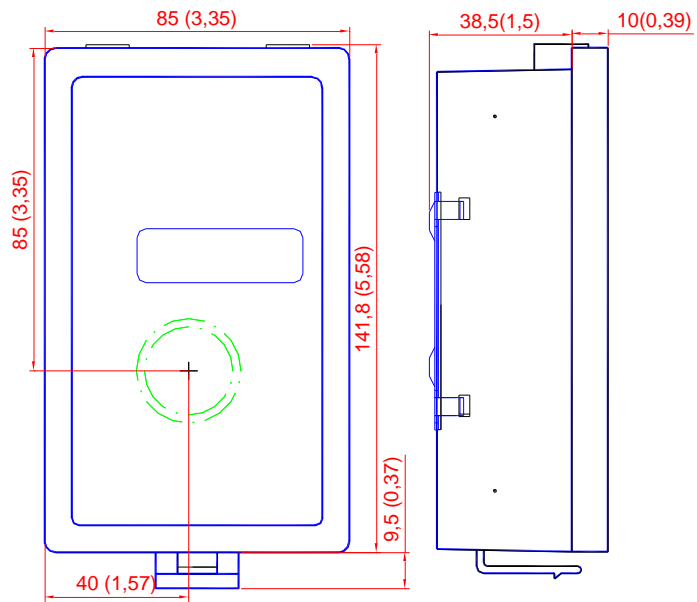
Note 1: The ground terminal is used as negative power supply DC input or AC phase ground  (halfwave rectifier). A single transformer may be used for the entire system.

Note 2: aSENSE 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 the user manual.

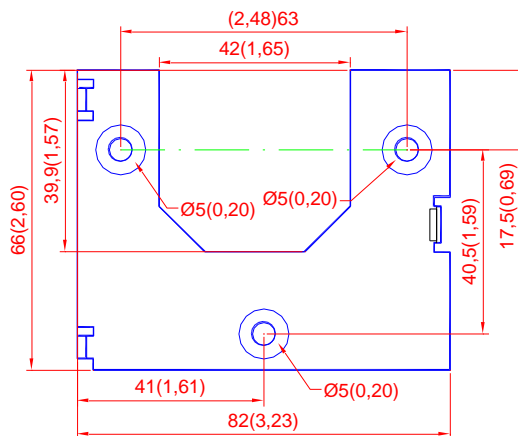
Note 3: Please use voltage outputs for temperature measurements. The accuracy of temperature measurements is valid only for units configured in voltage outputs mode.



Terminals and jumpers on aSENSE RL. The darker positions are default settings.



[mm (inch)]



[mm (inch)]

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