

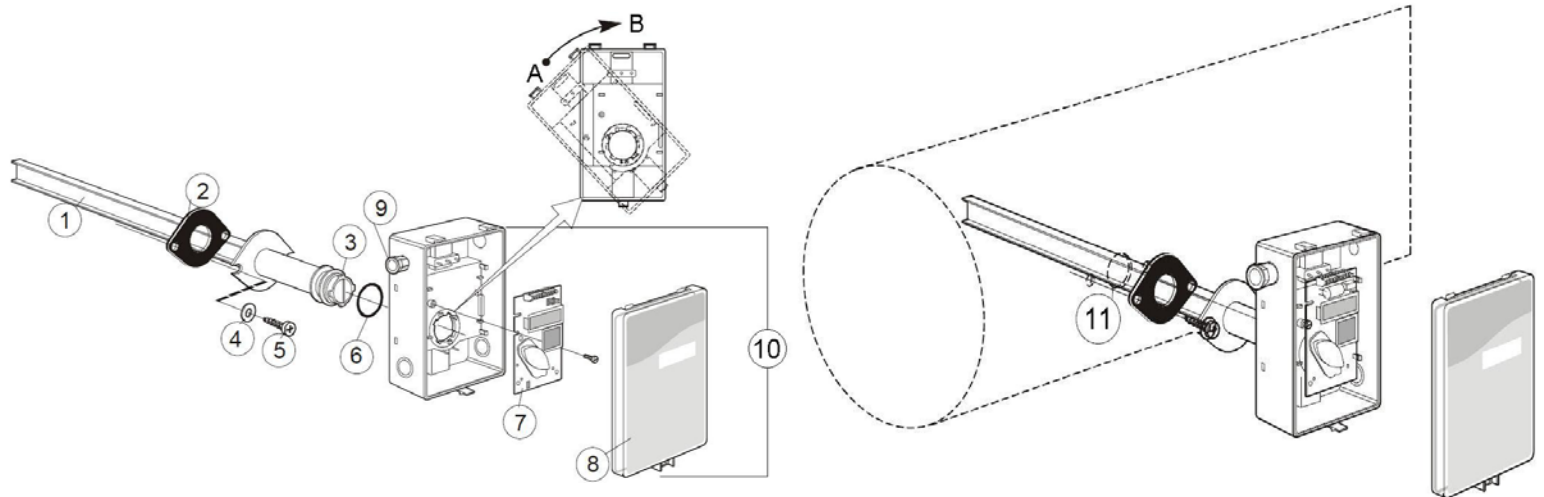
### Mounting

It is essential to avoid ambient air from suction into the duct-mounting box, since there may be a substantial pressure difference being the duct and ambient. For correct function it is important that the sealing of the box cover, the cable entry bushings, the cable feed through and the duct entrance are absolutely tight. The duct entrance may need extra sealing paste in order to prevent leakage. The PCB must be handled carefully and protected from electrostatic discharge.

**Electrical cable entry:** The box has a factory mounted cable entry bushing, item (9). Never feed more than one cable through each cable entry bushing, or gas might leak through.

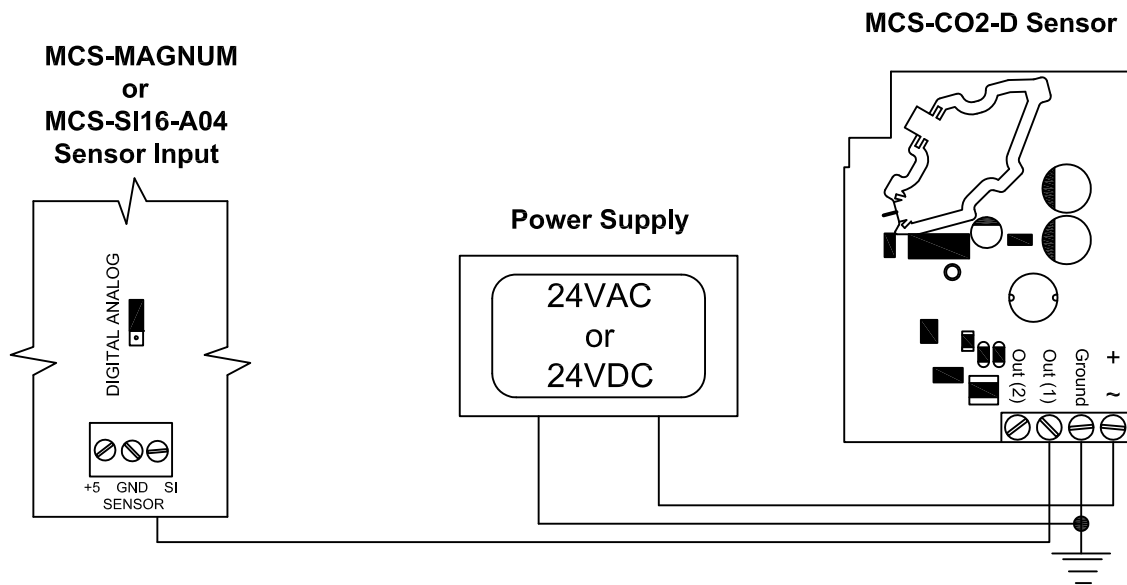
**Mounting the tube:** Drill 25 mm diameter (or 1 inch) hole for the sampling probe and two 4 mm diameter holes for the screws (5) into the air duct and mount the tube (1) with the gasket (2). The sampling probe should be mounted with the largest locking knob on top. The unit can be mounted with the air coming from the left or right.

**Attaching the sensor box:** Attaching the sampling probe is done with a snap-in bayonet fitting. Orient the box onto the sampling probe so that the box upside is on the same side as the largest locking knob (3). When the probe is fitted into the notches of the box, then turn the box clockwise until stop (see Figure 1). Position A indicates *open* where the box can be removed from the sampling probe. In position B the box is locked to the probe.



- |                           |   |                                 |
|---------------------------|---|---------------------------------|
| 1 Sampling probe          | 5 2 screws RXS 5, 31x10x1                     | 9 PG9 cable entry bushing       |
| 2 Sealing gasket          | 6 O-ring 29, 2x3, 53 (Factory mounted in box) | 10 Sensor Box                   |
| 3 Largest locking nob     | 7 PCB (Factory supplied mounted in box)       | 11 25mm or 1 Inch diameter hole |
| 4 2 washers BRB 5, 3x10x1 | 8 Snap-in lid                                 |                                 |

### Wiring



### Self Calibration

The MCS-CO2-D Sensor contains a complete self-calibration procedure that is executed automatically when the sensor is in operation. **The sensor accuracy is defined at continuous operation (at least 3 weeks after installation).**