

# Tube Cap Permanent Installation Procedure

Our tube cap adapters convert any industry standard 20mm gas sensor from diffusion to sampling sensors. For accurate results you must mount the tube cap permanently on the sensor.

## Available Tube Cap Adapters:

TC-1: 3mm OD side mounted ports



TC-4: 3mm OD back ports



TC-2: 3mm OD top mounted ports



TC-5: 3mm OD front ports



TC-3: 4.5mm OD top mounted ports



## List of Compatible Sensors:

AP-0001: Alphasense 25% Oxygen Smart EC Sensor

UV Flux 25% Oxygen Smart Sensor

AP-0005: Alphasense 5,000ppm Carbon Monoxide Smart EC Sensor

OX-0052: UV Flux 25% Oxygen Smart Sensor

CU-1000: Infrared Methane CH<sub>4</sub> Gas Sensor

GC-0016: ExplorIR®-W 100% CO<sub>2</sub> Sensor

GC-0006: ExplorIR®-W 20% CO<sub>2</sub> Sensor

GC-0017: SprintIR®-W 20% CO<sub>2</sub> Sensor

GC-0007: ExplorIR®-W 60% CO<sub>2</sub> Sensor

GC-0018: SprintIR®-W 100% CO<sub>2</sub> Sensor

GC-0015: ExplorIR®-W 5% CO<sub>2</sub> Sensor OX-0052:

GC-0024: ExplorIR®-M 5% CO<sub>2</sub> Sensor

GC-0025: ExplorIR®-M 100% CO<sub>2</sub> Sensor

GC-0026: ExplorIR®-M 20% CO<sub>2</sub> Sensor

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## Required Materials:

- a.) Tube Cap
- b.) Sensor
- c.) 5ml lure lock syringe
- d.) 18 Gauge lure lock needle
- e.) 2-part clear epoxy
- f.) Stirrer



a.)



b.)



c.)



d.)



e.)



f.)

### Step 1) Prepare sensor and tube cap.

- a) With a dry paper towel, wipe away any dust or debris on the barrel of the sensor and inside the tube cap

### Step 2) Prepare the epoxy (\*\*Epoxy will have a 5-minute working time before it begins to harden\*\*)

- a) Remove plunger to open the syringe
- b) Apply an equal amount of each part of the epoxy into the syringe
- c) Use the stirrer to mix the epoxy
- d) Put the plunger back in the syringe
- e) Face syringe into a paper towel and compress syringe in order to remove all excess remaining air. Be careful to not press out the epoxy mixture
- f) Apply 18-gauge lure lock needle to the syringe

### Step 3) Apply a bead of epoxy around the circumference of the sensor barrel about mid-way of the height of the sensor

### Step 4) Slide the tube cap onto the sensor with a back and forth twisting motion

### Step 5) Turn the tube cap to the desired orientation

### Step 6) The epoxy will harden in 30 min. Allow 2-3 hours in order to guarantee that the resin has completely hardened

**NOTE: Pay close attention to the position/ timing of the ports on the tube cap. The orientation of the pins on the sensor should be taken into consideration.**

For more information contact us at [Info@Gaslab.com](mailto:Info@Gaslab.com) or visit [www.GasLab.com](http://www.GasLab.com)