

AT-G-SENSE - Installation Instructions

Open the AT-G-SENSE by undoing the two screws. Remove metal faceplate, turn over, and check connection terminals (maximum wire size into terminal block 2.5mm).

1. Connect the output to the remote AT-G-SENSE-C Control Panel at CN6 using two-wire cable (7/0.2mm Alarm Cable up to 500m).
It does not matter which wire goes into which terminal.
2. Relay Outputs – connect NO or NC as required to one or both relays at positions CN4 and CN5. Relays are rated at 24V DC/ 120V AC 1A Max (connector block max wire size 2.5mm)
3. Set relay delays at jumper position HD1 position 1 & 2, factory default setting is **5 minutes**.
4. Set Latch setting at jumper HD1 position 3. Factory default is **Latched**.
5. Set Sounder condition at jumper HD1 position 4. Factory default is **Enabled**.
6. Set remote reset facility at jumper HD1 position 5. Factory default is **Enabled**.
7. Connect mains 230V LNE to terminal CN3 labeled LEN (connector block max wire size is 2.5mm)

AT-G-SENSE - Location Instructions

EN378 states that detectors used to ensure safety shall have their sensors located in such positions that they monitor the concentration at heights of the occupants of a human occupied space taking into account the characteristics of the refrigerant used e.g. at less than bed height with heavier than air gases in a hotel room. EN378 states that a ceiling void is regarded as part of the human occupied space unless it is airtight, therefore monitoring in ceiling voids would not be acceptable.

Accordingly the in-room sensor should be mounted at less than bed height but off the floor to avoid physical damage, typically between 200 and 500mm off the floor. It would be desirable that they are not mounted under mirrors or vanity units or in bathrooms to minimise ingress of volatile organic compounds, cleaning chemicals and water. In Kitchens avoid sources of steam.

Choose a location away from draughts and heat sources like radiators etc.

Mains power to the unit should be switched and fused (3 or 5 amp rating is recommended)

Gas: Refrigerant

Alarm Set Point: 1%

AT-G-SENSE - Operating Instructions

When the AT-G-SENSE is powered-up it will sense for the presence of gas after an initial warm-up delay of 5 minutes, the green LED will flash at 1 second intervals during the warm-up.

When the alarm is activated, the sounder, relay, and external interface to the AT-G-SENSE-C Control Panel will be turned on, and the red LED will be on. The mute button on the exterior of the case may be pressed. (This will switch the sounder off)

The reset button is accessible via a hole in the front panel (near the green LED) this may be pressed to reset the alarm (only effective when the gas has cleared from around the alarm unit, indicated by the red LED turning off). *A non-metallic object such as a match or toothpick should be used to operate the reset button.*

If automatic reset is enabled, the alarm will reset by itself without user intervention.

AT-G-SENSE - Test Function Instructions

Expose the sensors to calibration gas (appropriate to the installation) or crack open the valve of a cigarette lighter without igniting it and hold it over the vent holes on the upper side of the AT-G-SENSE. The gas is heavier than air and should fall into the AT-G-SENSE. This very high concentration will force the system into alarm. The red LED will light showing the system is in alarm. The delay will prevent the siren sounding for the preset delay.

To test the siren and or relay function, set the delay at zero using the jumper at HD1 as shown on the installation diagram and expose to gas as above. You can mute the siren using the mute button.

After the gas has cleared and the red LED has gone off you can reset the alarm condition including the relay and siren by using the reset button.

Before testing the sensors on site the AT-G-SENSE must have been operating for a minimum of 2 hours.

AT-G-SENSE - Annual Calibration Test

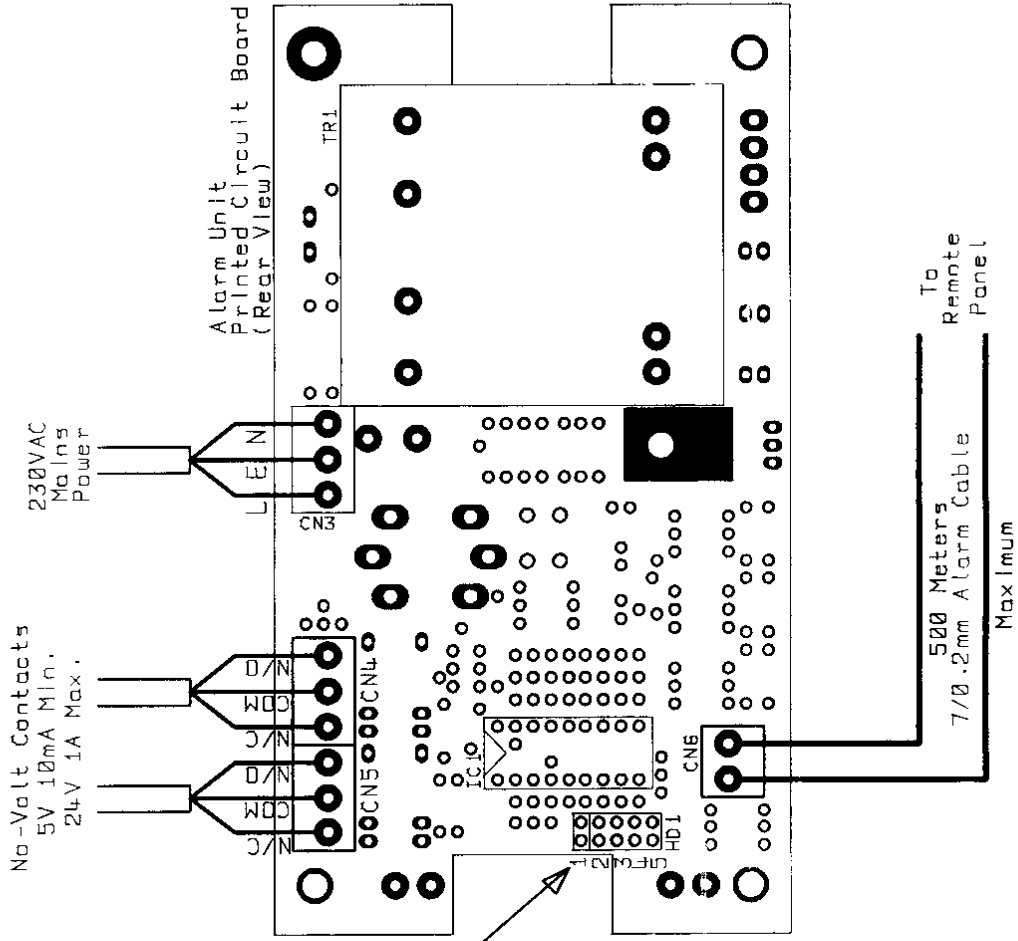
Test the sensors annually using the above procedure. If the AT-G-SENSE does not go into alarm contact us for re-calibration instructions.

When testing the sensors ensure the AT-G-SENSE-C Control Panel functions correctly:

- Red LED
- Siren (if connected) activates
- Relays (if connected) activate
- Reset Operates

AT-G-SENSE Installation Diagram

Connection Diagram / Jumper Settings:



Jumper Settings	
ON	OFF
1: Delay Setting 1	
2: Delay Setting 2	
1 & 2 off:	No Delay
1 off & 2 on:	5 Minute Delay
1 on & 2 off:	10 Minute delay
1 & 2 on:	15 Minute delay
3: Latch Setting	
on:	Manual Reset
off:	Automatic Reset
4: Sounder	
on:	Sounder Enabled
off:	Sounder Disabled
5: Remote Reset from panel	
on:	Enabled
off:	Disabled