

PRESSCON GAS 4 OPTION PCB KIT

Installation

1. INTRODUCTION

The Gas 4 option pcb kit allows connection of up to four Phasefale gas sensors to a Presscon Network.

The Gas 4 option supplies power for the gas sensors.

2. INSTALLATION

Location of Sensors

The position of the sensor is critical for the correct operation of the unit. The sensor can only monitor the air which flows over it.

The key to proper sensor location is to determine the air flow in the room. The sensor should be located so any gas being detected will flow towards the sensor. Pay attention to whether the gas will rise or fall to the ground.

If the sensor is not temperature compensated it will need to be kept at a fairly constant temperature. If the temperature varies from that at which it was calibrated the accuracy of the reading will decrease. Ambient temperature should be between 10 and 30°C.

Wiring to Gas Sensor

The sensor is connected via two sets of cables. The heater set connects to the Gas 4 PCB. The sensor signal set connects to a Presscon Sensor

Card.

The heater set supplies power for the heater element in the sensor and must be adequately sized to avoid voltage drop in the cable. The voltage at the sensor must not be less than 4.80 Volts.

The sensor signal cable can be of a lighter gauge than the heater cable. All joins in both cables must be kept dry and have no resistance. The following table shows recommended sizes.

Cable Gauge	AWG	SI Metric
Heater < 100m	No. 16	16/0.30
Heater < 200m	No. 14	26/0.30
Heater < 300m	No. 12	41/0.30
Sensor Signal	No. 22	7/0.30

If the sensor wires are run near mains voltage cable they must be shielded.

The heater set connects to S and S4 on the Gas 4 PCB.

The sensor signal connects to the

G terminal and the appropriate input terminal of the sensor card. The selector switch should be in the temperature position.

Wiring to Gas 4 Option PCB

The Gas 4 Option PCB requires Active and Neutral mains power which should be filtered power from the PL10.

The gas sensors connect as described above to S & S4 on the respective inputs of the PCB. Only one sensor can be connected to each S, S4 pair.

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