

**AAN 402****CO2-D1 Conditioning unit**

The CO2-D1 is a potentiometric electrochemical gas sensor that responds to carbon dioxide as a gas Ion Selective Electrode.

The potential generated must not be measured using low impedance circuitry.

Alphasense has developed a simple buffering circuit that conditions the potential to protect the CO2-D1 from damage.

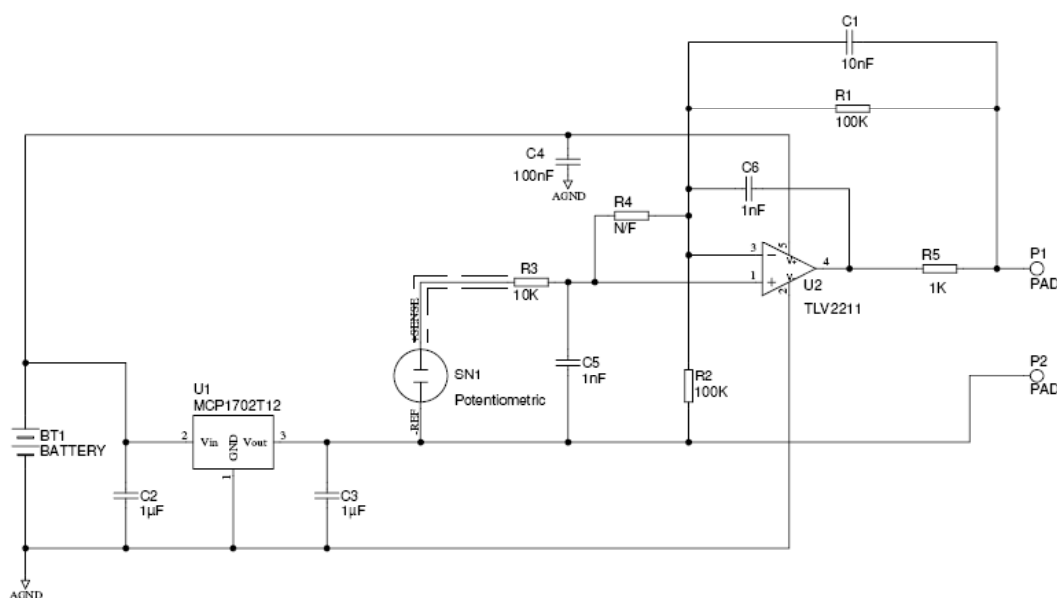
During validation, this conditioning board allows users to connect a simple data-logger or DVM (Digital Volt Meter) to safely monitor the sensor.

**Power:** CR2032 Li coin cell (3V) (20mm dia, 3.2mm ht. 165mA) located under the board

**Consumption:** Approx. 30uA giving between 6 and 12 months continuous use

**Output socket:** 2-way screw terminal Marked + and -.  
Suitable for feeding directly into a data logger or DVM

Alternatively, you can develop your own conditioning PCB. A sample schematic is shown below to help achieve this.



**Figure 1 – Conditioning Unit Schematic**