

MEMBRAPOR

ELECTROCHEMICAL GAS SENSORS

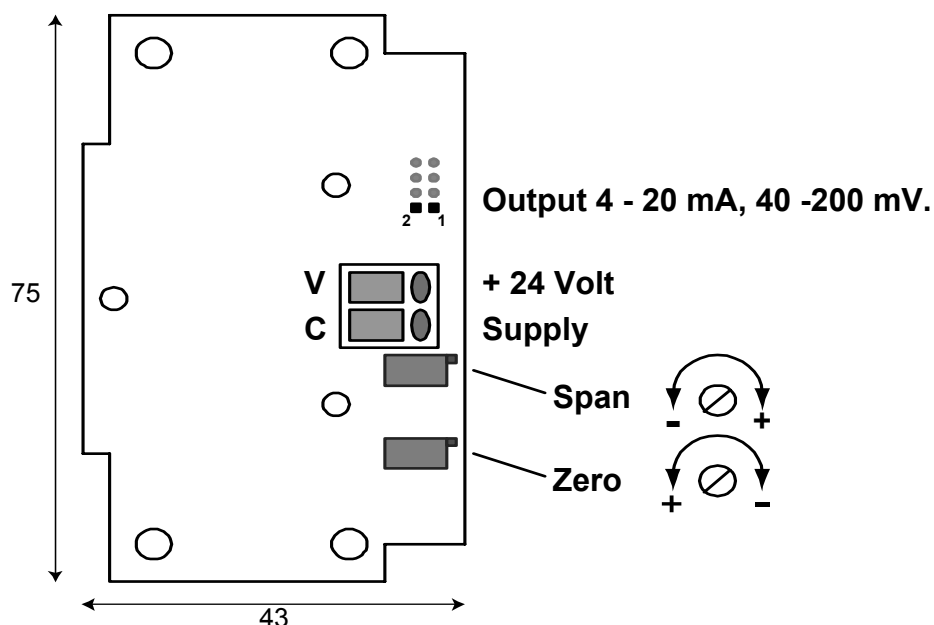
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Operation of the 4 – 20 mA Transmitter

The transmitter needs a power supply of 12 – 36 V DC to operate. Connect the power source as shown in the drawing.

The output signal has a linear range from 4 – 20 mA and 40 – 200 mV respectively.



Calibration

The spring on the sensor must be removed before insertion in the electronic circuit.

There are two potentiometer on the circuit board to calibrate the transmitter together with a sensor. To adjust the zero point, purge the sensor with synthetic air at a flow of around 30 l/h for at least 3 minutes. Adjust the potentiometer "zero" to get an output signal of 40 mV.

Use the maximum gas concentration allowed by the specification of the particular sensor to adjust the rang of the output signal. Purge the sensor with this gas mixture. When the signal is stable adjust with the potentiometer "span" the gain to reach an output signal of 200 mV.

If you use a mixture with an analyte gas concentration lower than the maximum concentration, calculate the appropriate output signal using a linear relation ship.

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