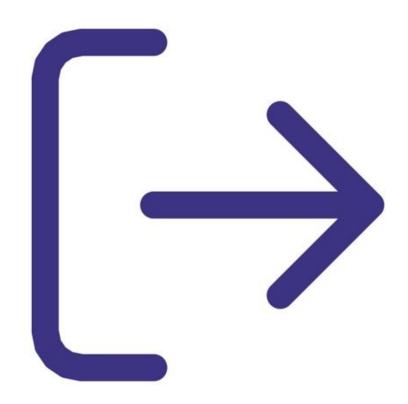


## Wire for 4-20mA output

Written By: Tanya Taylor



## **INTRODUCTION**

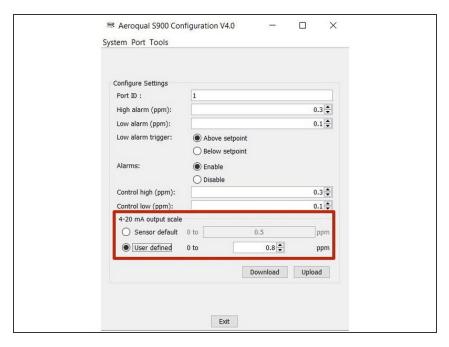
You can connect your S930 to a PLC or current sensing device via the 4-20mA output to provide gas concentration information.

The full scale (20mA) value is factory set but you can change the output scale in the fixed monitor configuration software.

If the sensor fails, the output will be 20mA. We recommended you use the DIAG output to alert a sensor fault condition.

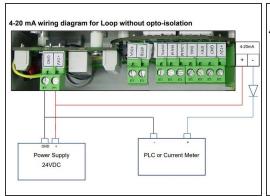
The 4-20mA output loop is opto-isolated from the monitor and we recommend a separate power supply with a voltage in the range 12-24V applied with the correct polarity. This produces the most reliable connection method. If opto-isolation isn't important, the 4-20 mA loop can be powered by the same power supply as the unit.

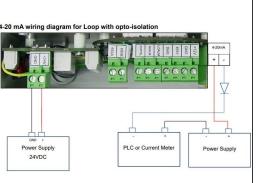
## Step 1 — Configure 4-20mA output scale

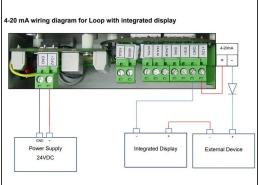


 Configure the 4-20mA output scale using Aeroqual's <u>fixed monitor</u> <u>configuration software</u>.

## Step 2 — Wire to PLC







- Connect the 4-20mA loop on the screw connector to the power supply and current measuring device (e.g. PLC), ensuring the polarity is correct.
- (i) Note: If the polarity is incorrect, the 4-20mA output may be permanently damaged.
- Power on the monitor and PLC.
- Check the PLC or current sensing device to ensure data is being shown.
- These diagrams show 4-20mA wiring for loop:
  - with opto-isolation
  - without opto-isolation
  - with integrated display.

For further support, contact **Technical Support**.