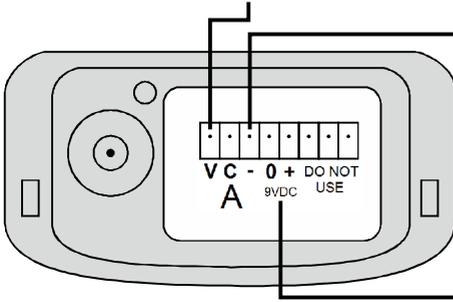


Eltek TU1049 - The GS41AV transmitter

The **GS41AV** provides one physical input, "A", and three calculated channels B, C and D. Input A is for use with the EplusE EE66 and EE576 air velocity sensors.

Connections

Connect 0-5V / 0-10V to "v", connect minus to "--"



The GS41AV is powered from an external 9VDC (+/- 0.1V) supply. External power is connected to "+" and "0".

Transmitter ranges

The **GS41AV** has two ranges: 0 - 10V
0 - 2m/s

Probe ranges

The **EE66** probe has three (selectable) ranges: 0 - 1m/s (accuracy ± 0.04 m/s)
0 - 1.5m/s (accuracy ± 0.05 m/s)
0 - 2m/s (accuracy ± 0.06 m/s)

Below 0.15m/s the accuracy of the probe is not defined by the manufacturer.

Each range gives a 0-10VDC output. Use the EU range in Darca to scale as appropriate. Range selection on the probe is by jumpers. The default range is 0 - 2m/s.

The **EE576** has two ranges: 0 - 1m/s (accuracy ± 0.05 m/s)
0 - 2m/s (accuracy ± 0.08 m/s)

The range of the EE576 is fixed and must be specified at the time of ordering.

Below 0.2m/s the accuracy of the probe is not defined by the manufacturer.

The probe output is 0-5VDC. Use the EU range in Darca to scale the range.

Transmitter Channels

Input	Function
A (physical input)	Average Value. A rolling average from 18 samples taken at fixed 10 second intervals (i.e. 3 minutes)
B (calculated channel)	Minimum of the 18 samples
C (calculated channel)	Maximum of the 18 samples
D (calculated channel)	Instantaneous value (last value measured). If the EE66 is set to SLOW, it will take 4 secs for the value to change in TxSetup in Darca.

Setting the EU engineering units - example for EE66 probe

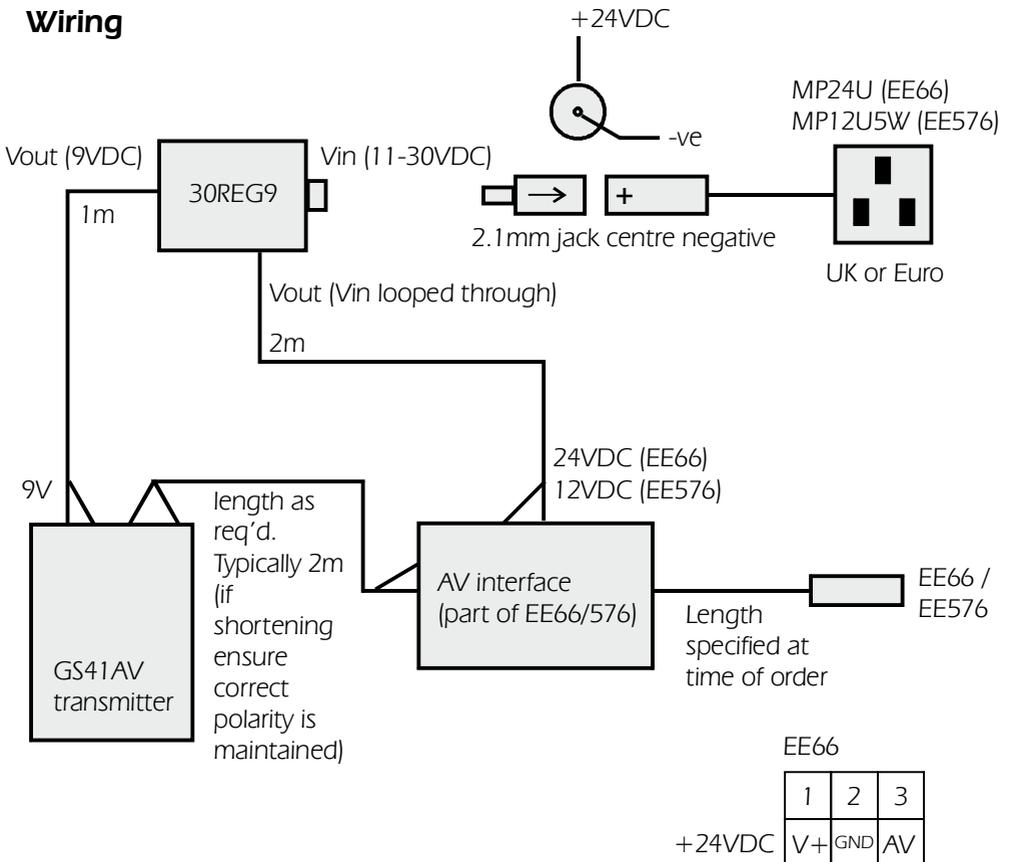
Configure the transmitter using Tx Setup in Darca.

Setting A (physical input)

- Channel A range is 0-10VDC
- If EE66 probe range is 0 - 1 m/s, we need to scale 0-10VDC to 0.00-1.00m/s (only 2 decimal points are needed because the probe is only accurate to this level).
- In **EU Range Selector** : **Channel A** window (Do not click on Helper!)
 - Set maximum: to 100
 - Set units to m/s
 - Set Decimal point: to 2
 - Click OK.

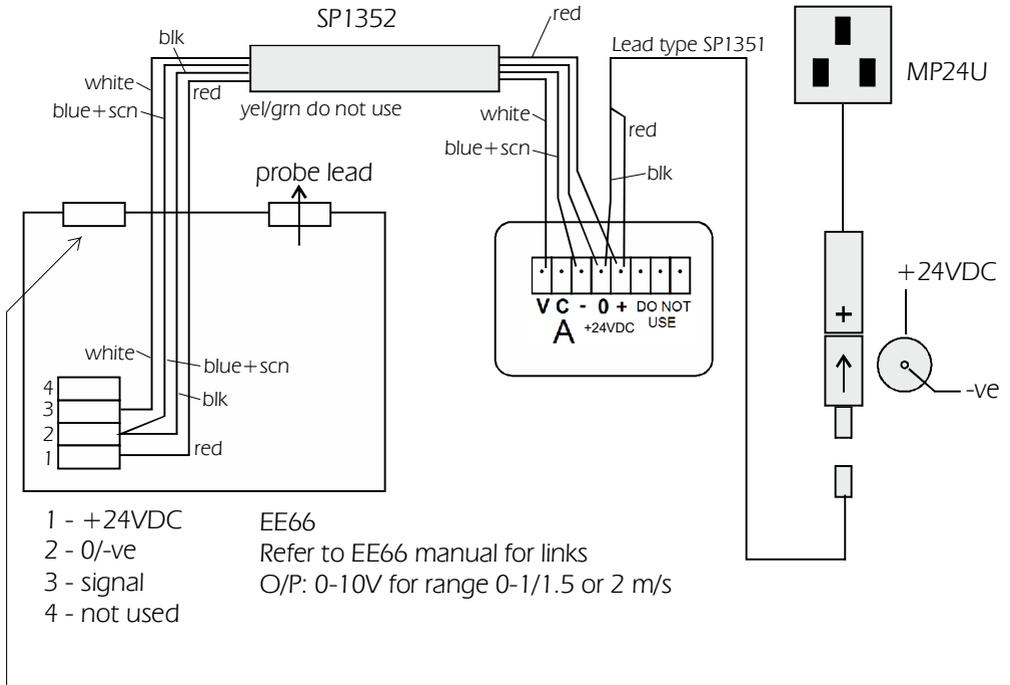
Set other channels to the same values.

Wiring



Alternative wiring - applicable only to GS41AV/SP1144

This version can be powered direct from 24VDC



knock out blank by tightening provided gland using suitable spanner

