

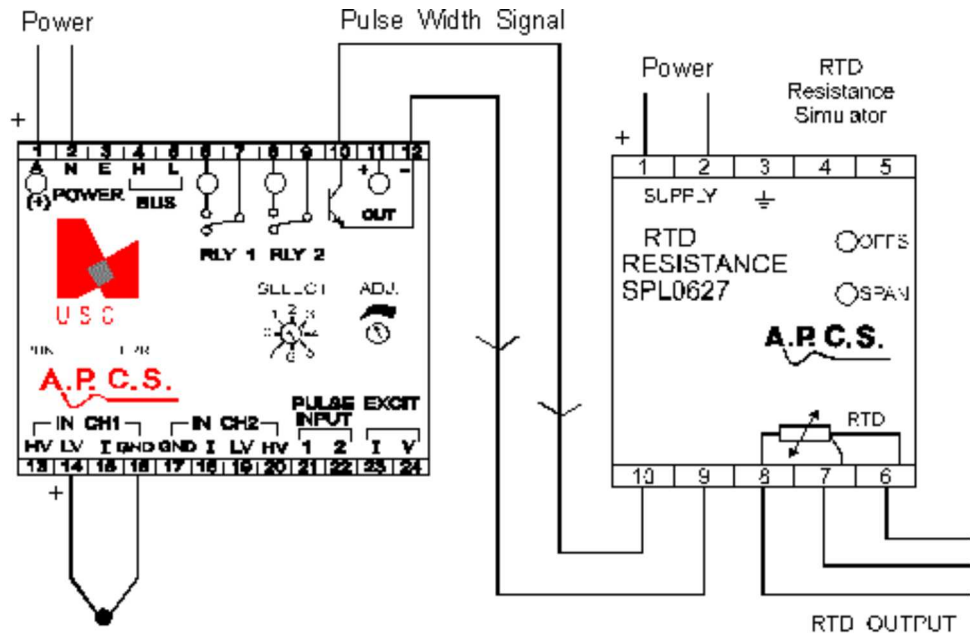
## Analogue / Sensor Signal to RTD Converter

### Operating Description



The USC701 is combined with the RTD/Resistance Simulator to convert an analogue signal (or sensor input) to a resistance output. The example below shows the conversion of a Thermocouple input to an equivalent RTD output.

The USC701 converts the input signal (with any necessary linearisation or cold junction compensation) to a pulse width modulated signal that adjusts the SPL0627 resistance output to the required output.

The pulse width modulated control signal input to the SPL627 has a defined non-linear relationship with the resistance output. The USC701 performs all the necessary calculations to ensure the correct output is generated.



### USC Programs

File	Comment
 Help	If unexpected results occur when loading the .usc file press back and click on help for instructions.
 UAP00201.usc	First Issue.

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