

Setup; Pulse Amplitude, Output Range and Power Supply APC253

Changing Input Supply

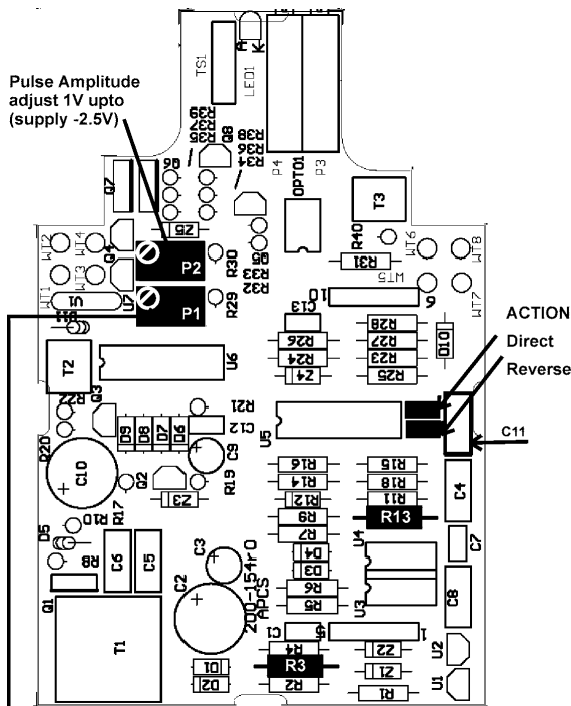
The module will work over a range of 10-30Vdc, however the actual working range must be set up to reduce heating of the internal components as follows.

- a) Power the unit from the required working voltage.
- b) Adjust P1 to set the voltage across R3 to approximately 6Vdc.

Changing Output Pulse Amplitude

The output pulse amplitude is set using P2.

Layout of APC-200-C154 Assemble



Power supply circuit optimised for different input power supply (10-30V)
Set voltage across R3 to be 6V with required input supply.

R13 Cal:
$$R13 = \frac{23 \times 10^6}{\text{max. frequency}}$$

C11 Cal: For stability $C11 > 10 \text{ exp. } (-12) * R13$. (Max. Frequency 15kHz)

Frequency (Hz)	R13	C11
0-50	470K	470nF
0-100	220K	330nF
0-250	91K	150nF
0-500	47K	100nF
0-1000	22K	33nF
0-2000	10K	15nF
0-5000	4K7	10nF
0-10000	2K2	3n3F

Adjust 'Span/Zero' to suit:-
Span Range $\pm 15\%$
Zero Range $\pm 10\%$
Output > 10kHz upto 15kHz
Make C11 = 3u3F- 'calculate R13