

PA100 input adjustment

Current input

- a) With the input at minimum 4 mA, switch on the supply to a PA100.
- b) With the input at 4.5mA for 4-20mA input range (for other input range, set the input to 5% of the max. input), adjust ZERO POT until the output voltage or current is zero.
- c) With Input signal at 5.5mA, check output signal, it must be just switch on.
- d) With the input at 19mA for 4-20mA input range (for other input range, set the input to 95% of the max. input), adjust SPAN POT until the output voltage or current is maximum.
- e) With input signal at 18mA, check output signal, it must be nearly fully on.
- f) Repeat steps b) and e) until the output is at zero and max. corresponding to min. & max. inputs and all the conditions met.

Please refer the testing wiring diagram and some waveforms.

Check voltage at pot output, it should be between 9.3 to 10.7Vdc. with a 10K load. It confirms the supply voltage rail +12V is OK.

Check the ramp signal, if the ramp signal is similar as shown, both supply +12V and -12V is OK.

Check and calibrate the output with Zero and Span pots as above to achieve the correct input and output relationship.