

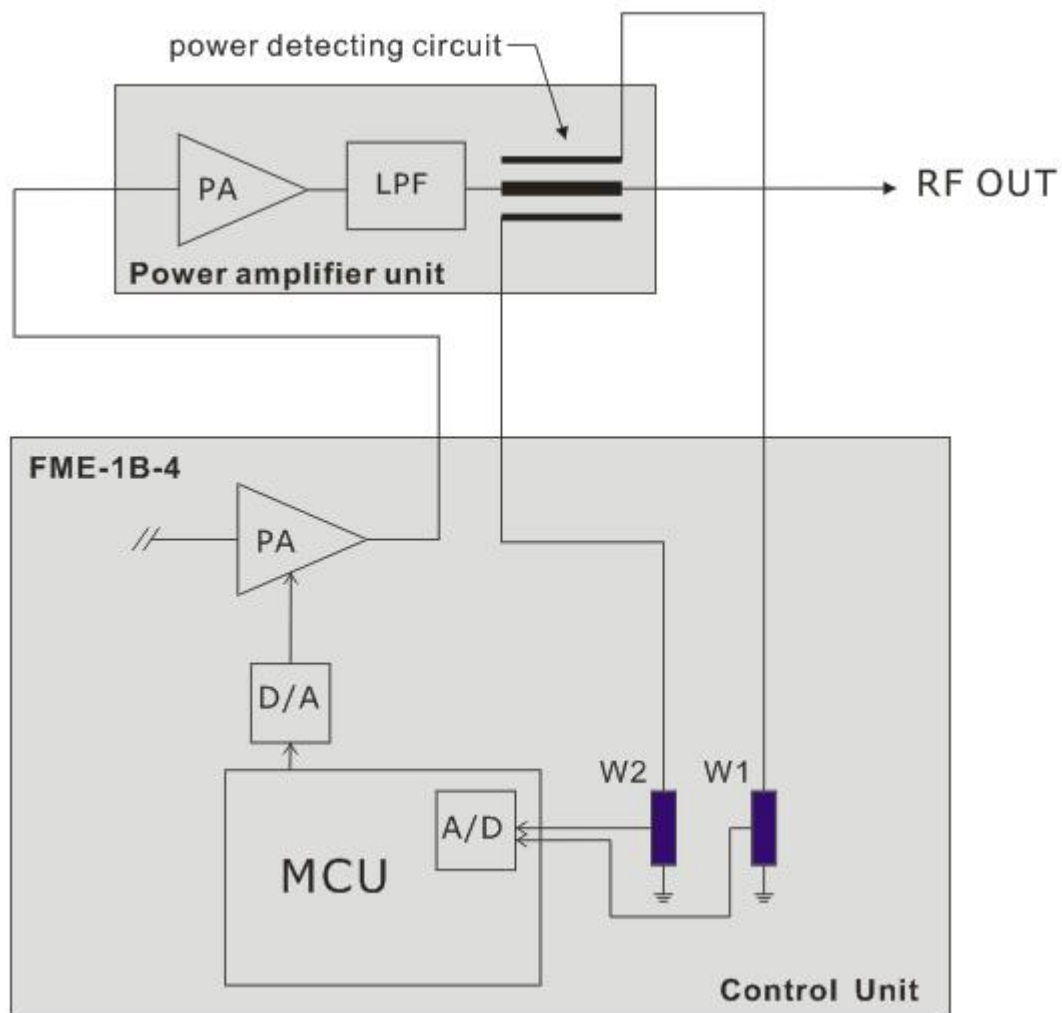
How to Calibrate Power

NOTE: All individually FME-1-4B control panels have been not calibrated. It is important to calibrate the power before coming into use, otherwise the power amplifier is not under control and the SWR circuit should not work. This may damage the power amplifier!

In the power amplifier unit, there is a power detected circuit which converts the power to voltage . The voltage is connected to the control panel (FME-1-4B).

- I Forward power signal send to MCU after adjusting by W1, this signal is calculated by MCU and output a control signal, which control the gain of drive stage.
- I Reflected power signal send to MCU after adjusting by W2, this signal is calculated by MCU, the excessive voltage means that the SWR is too high, will cause alarm.

Here is a simple schematic diagram:



Calibration operation requires :

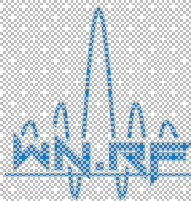
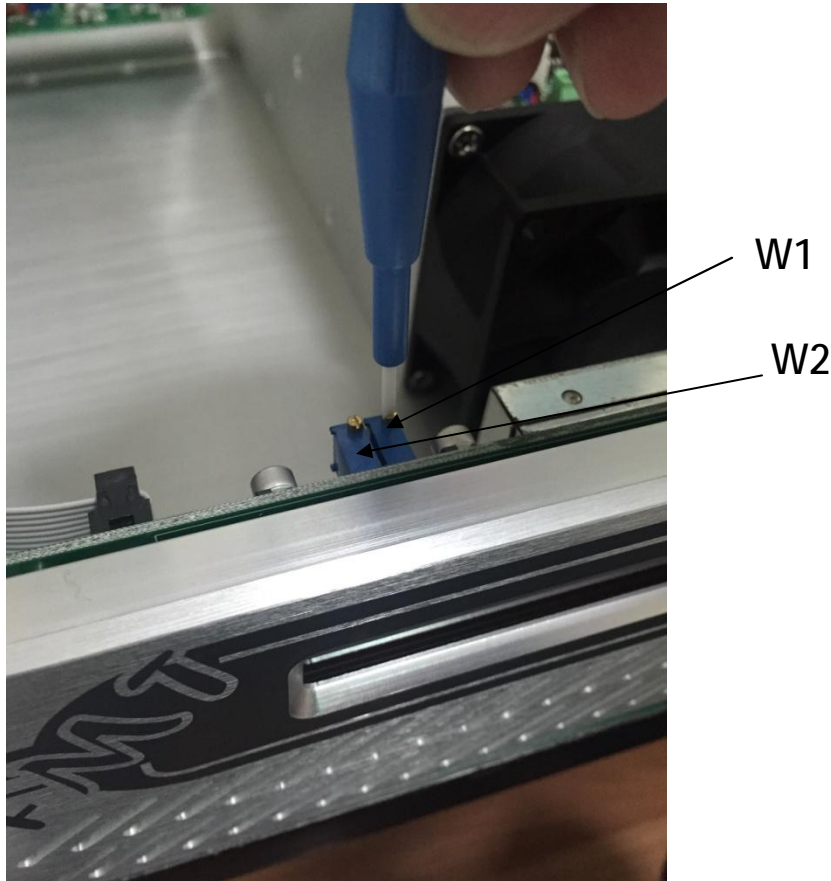
- I Standard dummy load (50 ohm)
- I Power meter (Watt meter)

I Screwdriver

I Mismatch dummy load (75 ohm or so)

Step 1: Connect the standard dummy load and the power meter, set the power level of the transmitter, adjust the W1, so that the power meter shows the power shows in the transmitter are same.

Step 2: Connect the mismatch dummy load , set the power level of the transmitter, adjust the W2, so that the Reflected power shows in the transmitter is right . this value depends on the characteristics of the mismatch dummy load and the forward power level.



Overseas Sales Department

Online store: <http://www.108MHz.com>

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E-Mail: littleshirely@gmail.com