

Gain adjust:

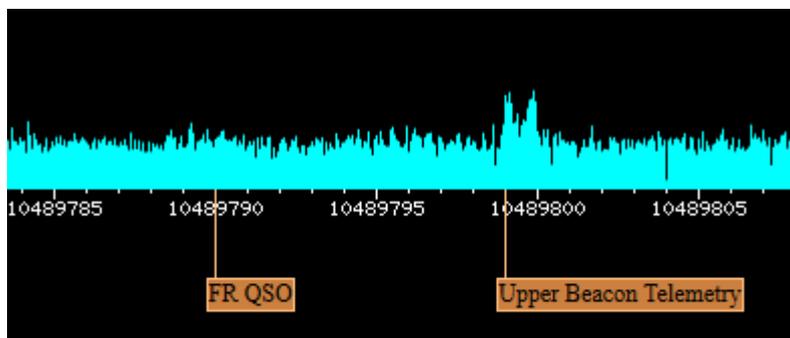
There is only 1 adjust point, the input gain setting. The transverter output gain is adjusted one time with the RF output gain. How do you do that.

After connecting the transverter, antenna etc. set the transmitter on air. Look at the Web SDR at internet, address: <http://217.133.56.150:8901/>
This is the Italian Web SDR. In the website you found the Waterfall setting, use this.



If you transmit at xxx.795 MHz (5 kHz lower then the beacon) adjust the power so that you are even strong as the beacon. The adjusting is for each amateur different.

This is the picture of the beacon:



But sometimes the user will other settings. Therefore we use Jumpers

Jumper 1: Simplex – Duplex Left = simplex right = duplex

In the duplex mode the receiving frequency is 5 MHz higher then the transmit frequency. If you like a duplex output, you van make it easy with a extra connection and a 25cm coax. (see later)

Jumper 2: Software choice for the 25 or 27 MHz reference oscillator. This is an internal setting, you can't choice the 25 into 27. (this is for the PLL adjust.)

Jumper 3 and 4: Frequency setting into the 70cm band

	Jumper 3	jumper 4
431.550 / 431.800	right	right
432.550 / 432.800	left	right
433.550 / 433.800	right	left
434.550 / 434.800	left	left

Pin connection of the XLR7 connector:

XLR	pin 1	GND					
	pin 2	GND					
	pin 3	+8 - 12V					
	pin 4	PTT		low (gnd) = TX			
	pin 5	RF detection out		0 - 6V			
	Pin 6	+30V					
	pin 7	+30V		3A		parallel at pin 6	

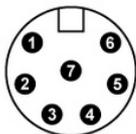
Advised cabel, 7 pairs of 1mm2 rotorcable.



7 wire's with numbers, cost about € 1.50

48V isolation.

Multi Pin output connector
Back of Neutrk XLR 7 pin female



Multi Pin output connector
Back of Neutrk XLR 7 pin male



< cable part

Power supply:

12V	Meanwell	RS25-12 or RS 35-12	(12V 2A or 3 A)
30V	Meanwell	RSP-100-27	(27V 3.8A) set the potentiometer in the supply at 29 - 30V)

Power supply can be ordered by PE1CMO,	RS35-12	17,50 euro (incl VAT)
	RSP100-27	50,00 euro (incl VAT)



(Meanwell RSP)

Ground from both power supply's are connected together.