

How to put into operation!

- 1) Connect the in and out coaxial relays, the UCU-03 control unit according to the attached block diagram.
- 2) Connect the wires and fittings of UCU-03 using the drawing given. The Ig1 and Ia instruments must have a basic value 100-250 μ A.
- 3) To run the unit you need an outer power supply providing Ua, heating and 15V ~ for the control unit. Please heat the tube(s) over min. 24 hours before the installation, without anode voltage, air cooling is necessary!
- 4) Check the correctness of the wiring, and the required voltages. Putting on the PTT the aerial relays are activated. Check the voltage on the R5 resistance. You must measure 100-120 mV. In case the voltage < 90 or > 140 mV you have to change the D3 Zener diode to regulate the basic current (100-120 mA). You can calibrate the instrument by P3 potentiometer to 100-120 mA.
- 5) Connect a power meter to the module. Give a few watts driving power. Tune to the maximum output power. By tuning the entrance adjust the match, check the input SWR value. ($< 1:1.5$) Give maximum driving power according to the specifications. Tune again to the maximum output power adjusting the capacitor. To calibrate the g1 meter check the voltage on the R4 resistor. Calculate the g1 current using Ohm's Law. Adjusting P2 potentiometer you can calibrate the instrument of Ig1 current.
P1 potentiometer is for adjusting the level of the protecting circuit (150 -350 mA g1 current ,see the specification).
The RESET push-button is for restart the unit in case of overcurrent.
P4 potentiometer regulating the protecting circuit in cases $SWR > 3$.
- 6) During assembly the regulations concerning to the safety of life all the time must be observed.
- 7) The assembly of the module requires technical practice and knowledge.
- 8) Please attempt in any time when you working with high voltage!