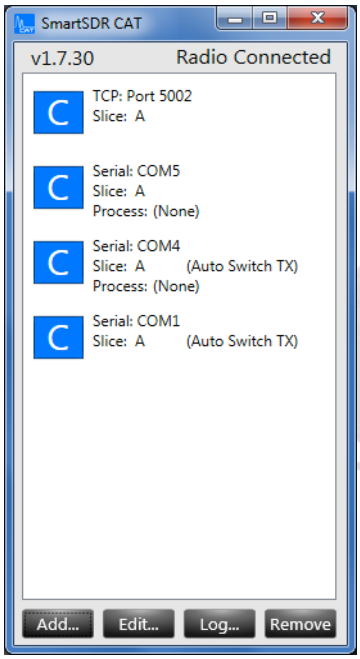
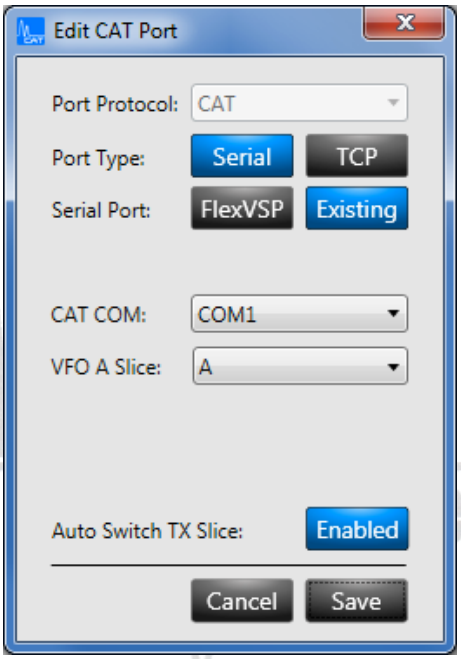
7.3. Controlling the OM2000A+ with Flex Radios Series 6xxx

Choose the control port in the SmartSDR window that you will use to control the power amplifier. It must be an existing serial port – a hardware COM port in your PC or an USB to serial port adapter. Connect the chosen COM port and the transceiver port to the OM Power amplifier with a null modem serial cable (both ends of the cable with a female DB-9 connector and pins 2 and 3 are crossed).

You must use it for the TX slice that is associated to the connecting port otherwise the amplifier will not to be set on the proper frequency.





In the **CAT SETTINGS** menu select **FLEXRADIO**, baud rate **9600** and press **SET**.

7.4. OM2000A+ Remote Control

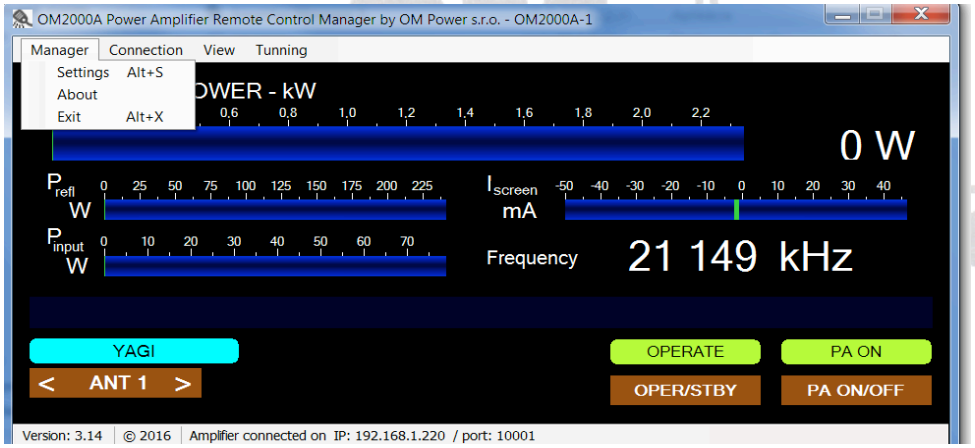
The OM Power team developed special software which allows control the PA OM2000A+ remotely. Download it from the official OM Power website . First unzip the downloaded file, then open software.

The software allows user:

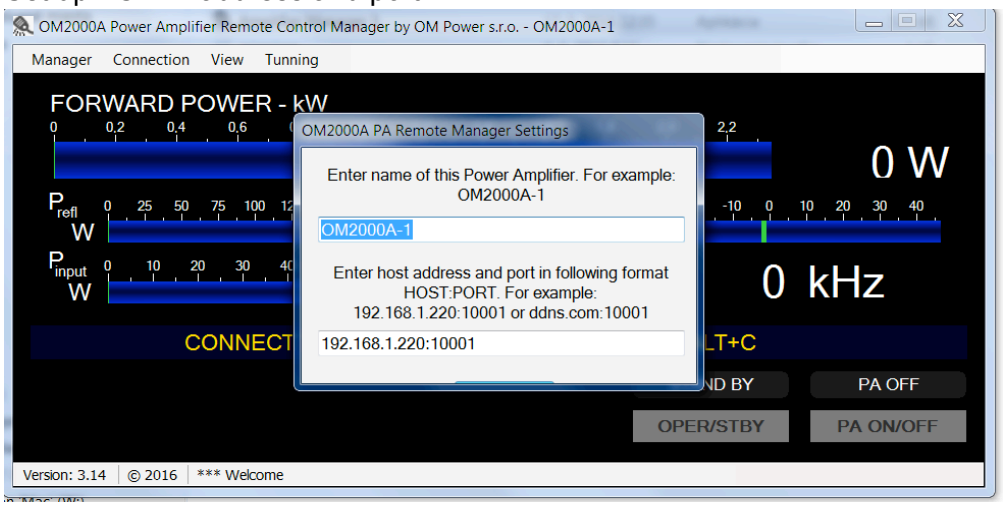
- Switch PA ON and OFF
- Switch between STBY and OPERATE
- Switch between preprogrammed antennas
- Read and reset last 20 warnings and fault statuses
- Fine tuning of the PA
- To check almost all operation parameters of the PA
- To select different screens

Have a look on the next pictures and follow instructions to setup remote control properly.

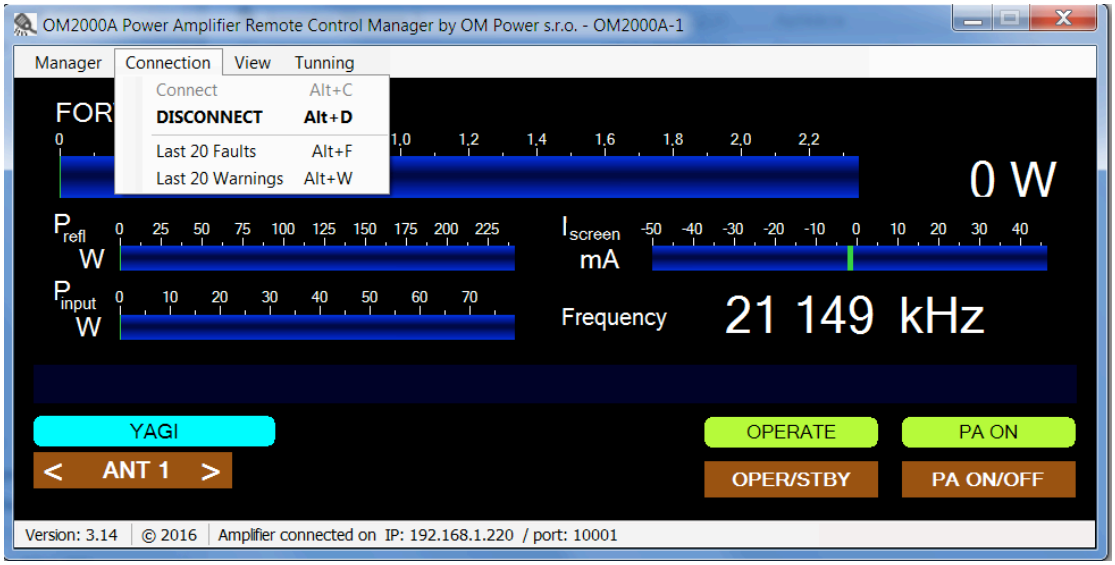
Connection setting



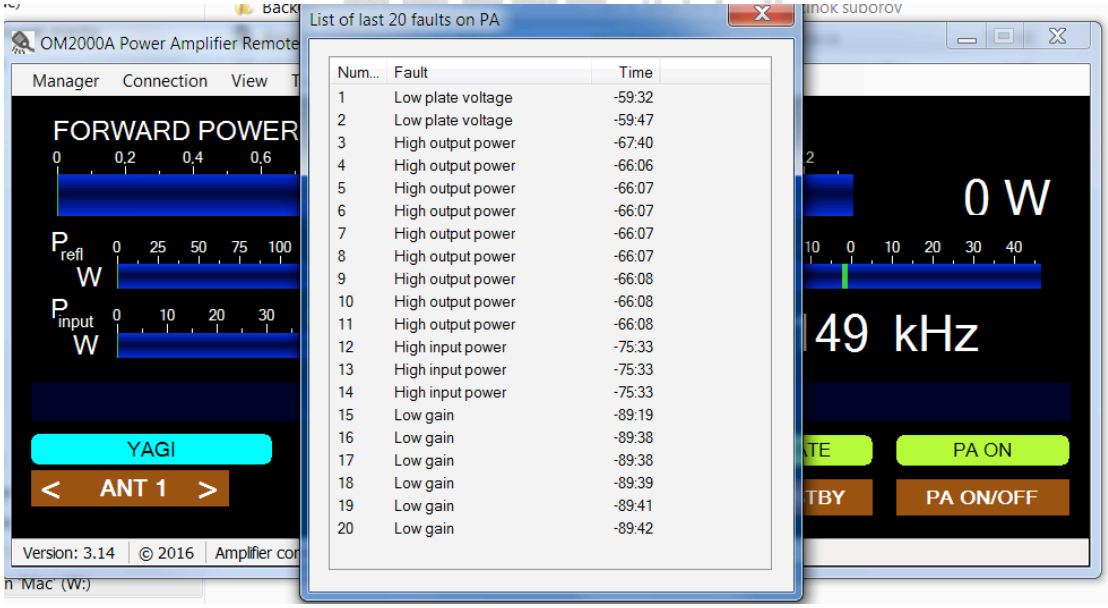
Set up TCP/IP address and port



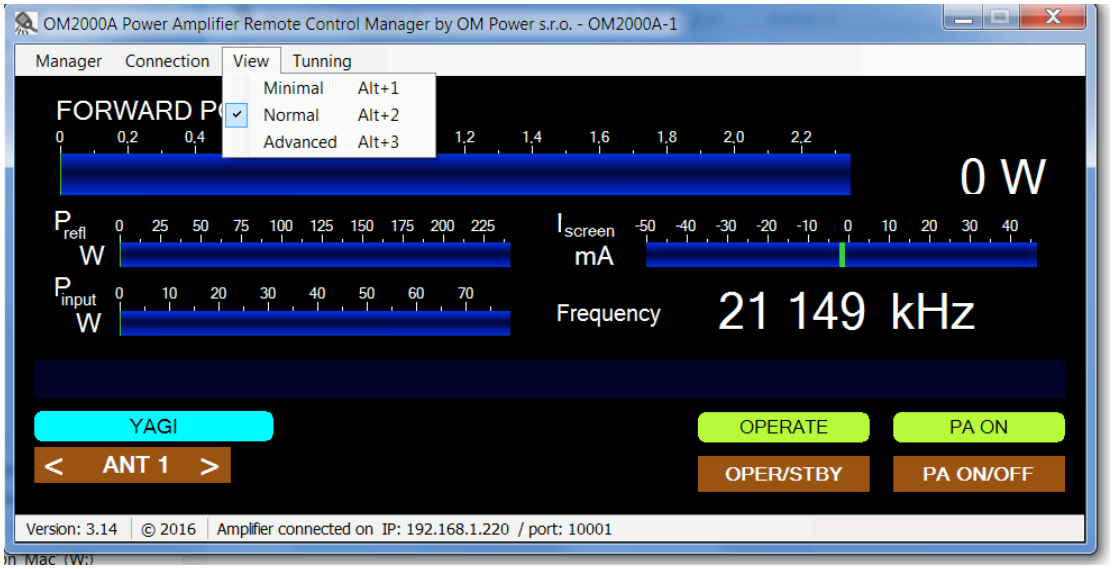
Connect / disconnect to OM2000A+



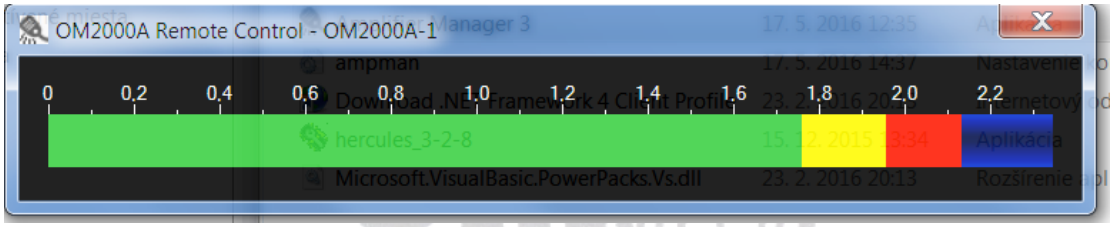
View last 20 PA faults



There are three possible screen selectable.

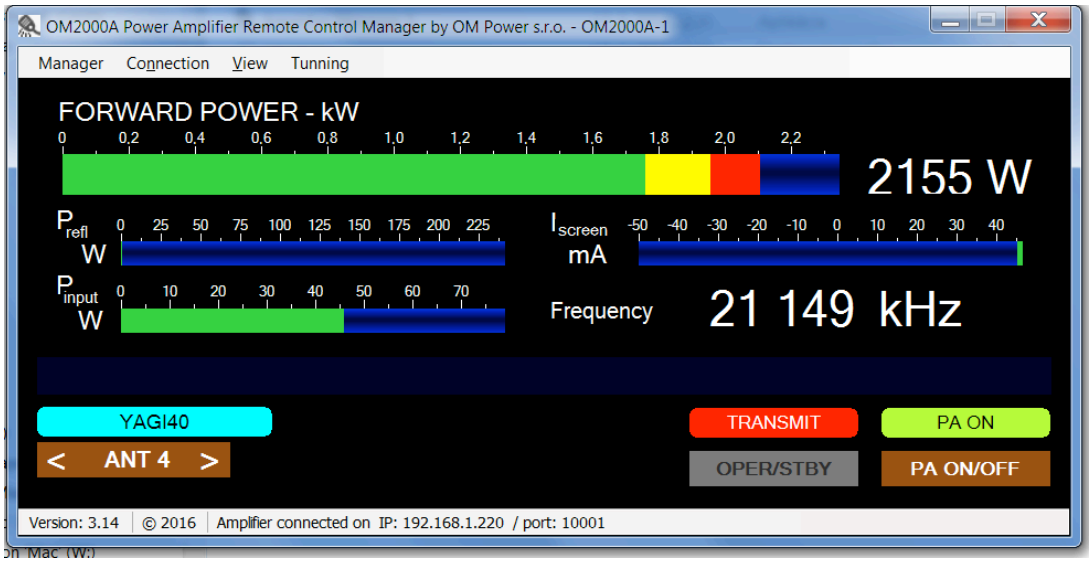


Minimal view

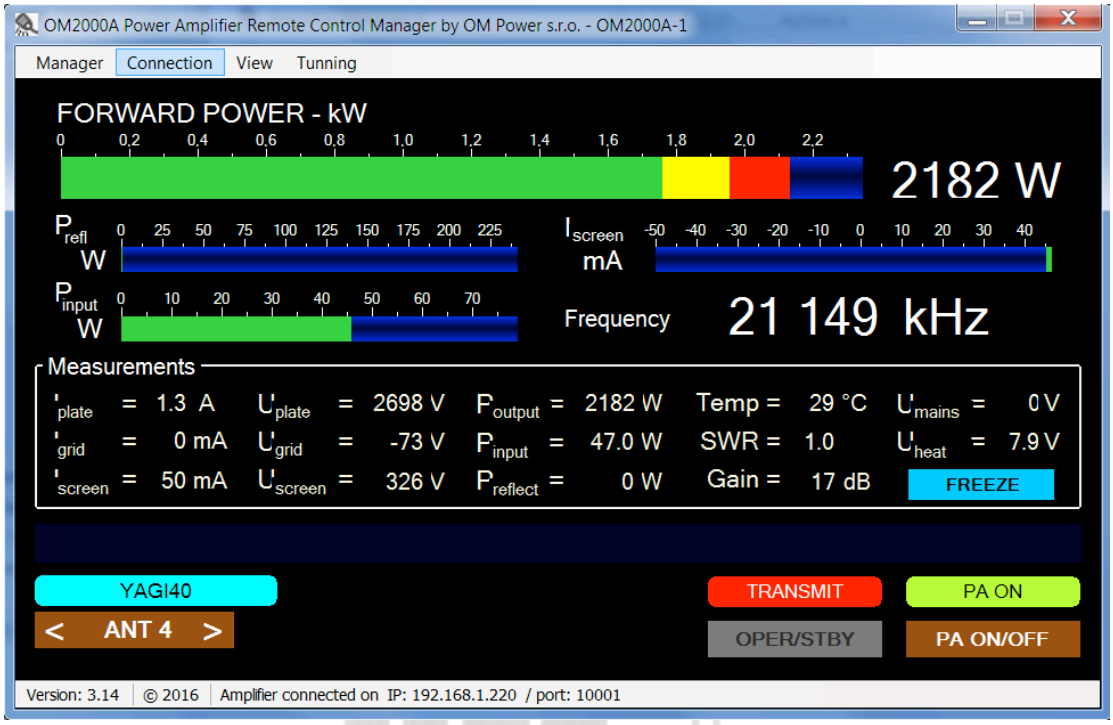


To go back from Minimal view click with right mouse button and close it. Normal view will appear back.

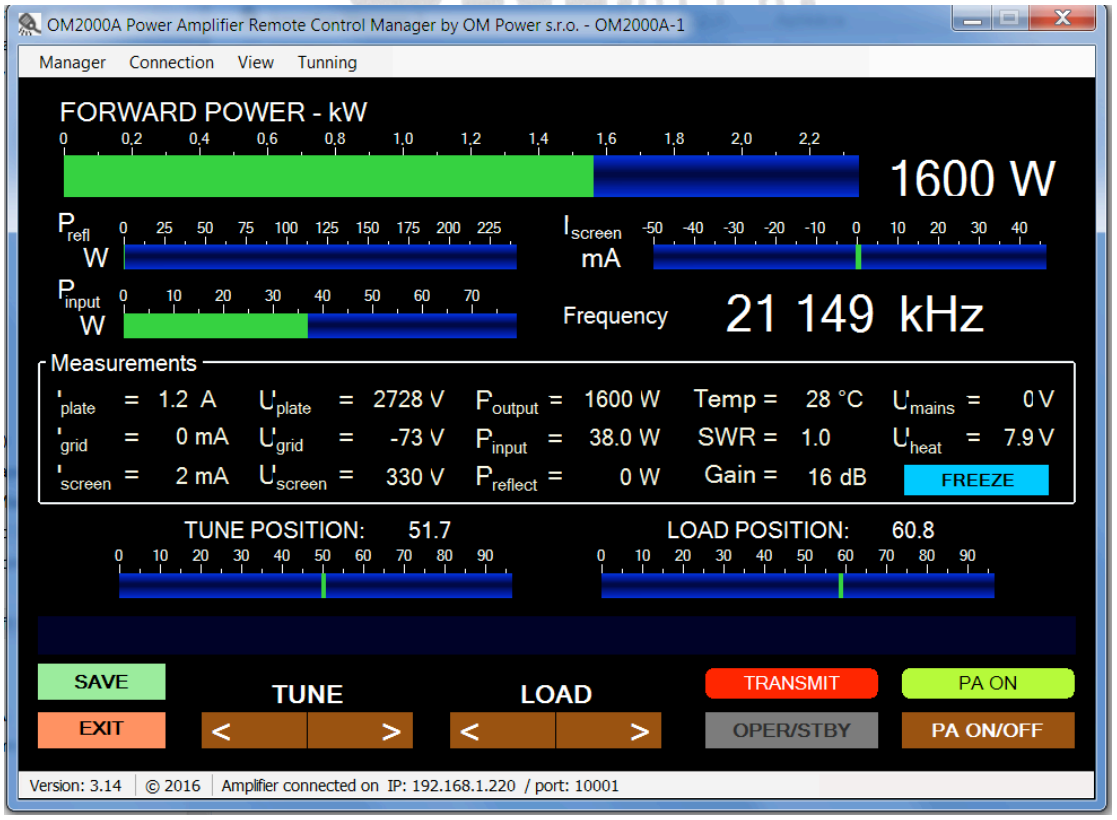
Normal view



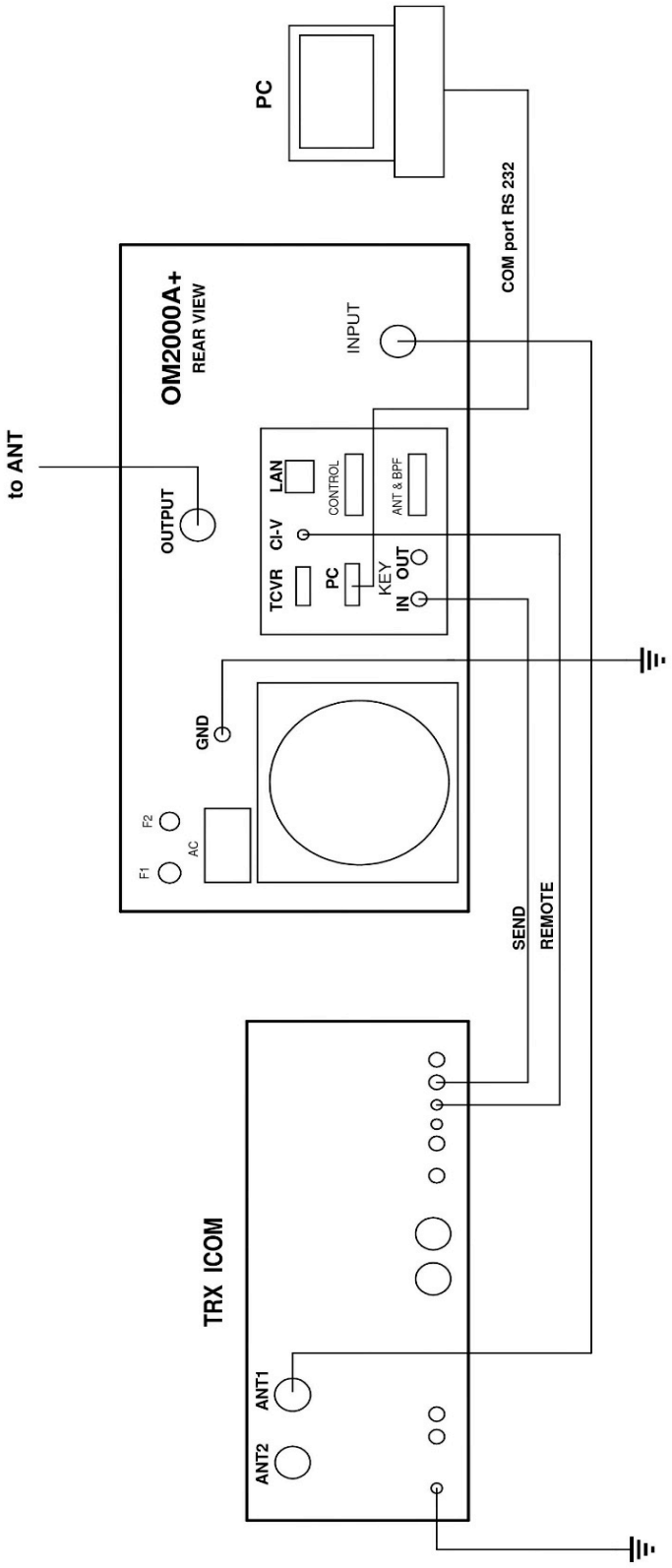
Advanced view



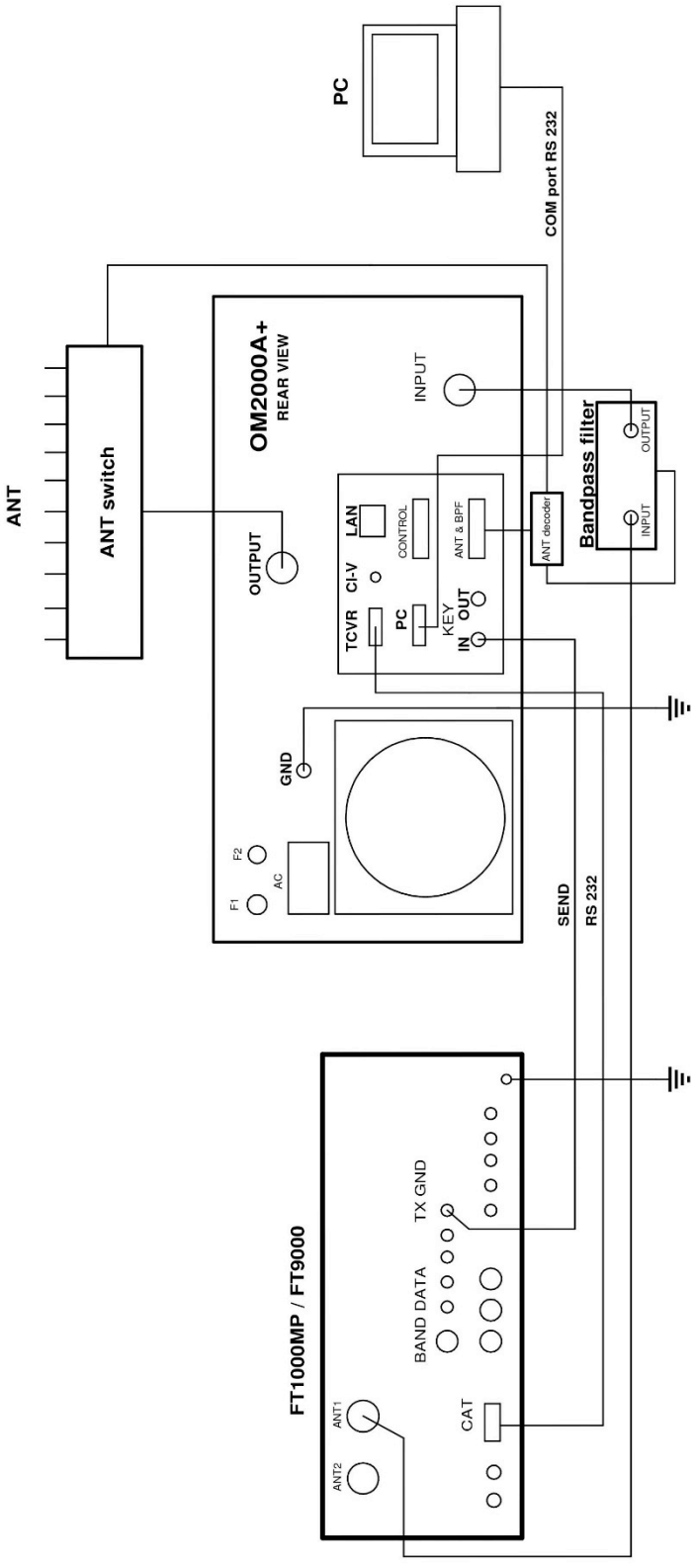
Fine tune screen



ICOM connection with OM2000A+



7.6. Yaesu plus BPF plus ANT Switch connection with OM2000A+



7.5. Control panel (rear side) connectors pin-out

ANT / BPF Connector - DB15 female

Pin 1 - ANT data A
Pin 2 - ANT data B
Pin 3 - ANT data C
Pin 4 - ANT data D
Pin 5 - NC
Pin 6 - GND
Pin 7 - GND
Pin 8 - +5V 100mA
Pin 9 - BAND data A
Pin 10 - BAND data B
Pin 11 - BAND data C
Pin 12 - BAND data D
Pin 13 - NC
Pin 14 - GND
Pin 15 - +5V 100mA

CONTROL connector DB15 male

Pin 1 - GND
Pin 2 - KEY OUT
Pin 3 - KEY IN
Pin 4 - CI-V
Pin 5 - BAND data A input
Pin 6 - BAND data B input
Pin 7 - BAND data C input
Pin 8 - BAND data D inputNC
Pin 9 - GND
Pin 10 - CI-V SW
Pin 11 - IC band data
Pin 12 - INHIBIT
Pin 13 - NC
Pin 14 - NC
Pin 15 - PA ON

7.6. Block Diagram of the OM2000A+ Power Amplifier