

MF/HF DIGITAL RECEIVER MODEL RX230A



- Frequency range 100KHz to 30MHz. (Resolution 1Hz).
- Total remote control via RS232 or Ethernet.
- Automatic or manual AGC.
- Programmable user scanner.
- Reception modes: USB, LSB, A3E, H3E, J2A, A1A, F1B, ISB.
- Fully digital.
- Touch screen 7".
- Control (touch or mouse).
- USB available (2).
- Frontal RF level indicator (analogic and digital).
- Drop-down menus on the screen.

1. Adaptive digital noise suppressor
 2. Manual AGC to place reception threshold
 3. Squell for communication signal recognition
- Immune to any noise without threshold
Robust and precise as VHF equipment
Optimal for working in ROIP networks
SDR

TECHNICAL CHARACTERISTICS

GENERAL SPECIFICATIONS

- Frequency range 100KHz to 30MHz
- Frequency resolution 1Hz
- Frequency stability 0.1ppm. from 0° to 50°C
- Antenna input impedance 50 Ω (BNC)
- Number of channels 255

RF INPUT (RF GAIN)

- Attenuator -20dB
- Attenuator 0dB
- Amplifier +10dB

WORK MODES (MODE)

- USB, LSB, H3E, A1A, F1B, A3E, J2A, ISB

- Sensitivity:
Without Amplifier 0.7µV. for 10dB S/N
With Amplifier 0.35µV for 10dB S/N
- Automatic gain control From 3µV to 0dBm
- Unwanted sideband suppression 80dB
- Image frequency attenuation 100dB
- Compatible with ED137B external gateway

CONTROL

- Bus RS232 (19200/115200)
- Ethernet

MUTE

- Silences the Rx completely

INPUT FILTERS (RF FILT)

- All-pass 100KHz - 30MHz
- Bandpass 2MHz - 30MHz
- Bandpass pre-selector 1.5MHz - 30MHz

Features Filters

- Bandpass
- Attenuator in FRE <1.5MHz y >34MHz 40dB
- Attenuator in band 0.3dB
- Pre-selector
 - Automatic tuning in the working frequency
 - Selectivity -20dB \pm 20KHz of working frequency
 - Attenuation in band 2.5dB

SELECTIVITY (FI FILT)

- 3KHz 130Hz 3150Hz AT=-96dB outside band
- 2,4KHz 300Hz 2700Hz AT=-100dB
- 1,8KHz 500Hz 2300Hz AT=-100dB
- 600Hz 700Hz 1300Hz AT=-100dB

* Digital filters FIR 444 Tap, 24 bit, FS=12,5KHz

AUTOMATIC AGC FALL TIMES (AGC T)

- 8 levels 5ms to 10s

WORKING FREQUENCY DIALING

- Keyboard that appears on the screen by selecting the digits

AUDIO OUTPUTS

- Balanced lines 600 Ω
- Adjustable output level
- Maximum level +3dBm
- Number of lines 2 (líne A, líne B (ISB))

NOISE SUPPRESSOR (DNR)

- Digitally produced (DSP)
- Recognition of communication signals
- Independent of AGC levels and channel intensity
- Virtually immune to noise

POWER SUPPLY

- Power Supply 110/220Vac \pm 10% 50/60Hz

ENVIRONMENTAL SPECIFICATIONS

- Operating temperature -20°C to +50°C

MECHANICAL SPECIFICATIONS

- Height 130mm (3u)
- Width 19" Rack

MANUAL AGC THRESHOLD (AGC TH)

- From 0 to 50% in eight steps, level 0 - 500 μ V

TUNING THE FREQUENCY MANUALLY (FREC)

- Variation of any digits of the display

- Speaker output 8 Ω from 0 to 4W maximum
- Headphone output Z \geq 8 Ω
- VOIP

- No threshold adjustment according to signal level
- Operation similar to VHF equipment
- Optimal for integration into ROIP networks
- Minimal distortion of audio signals
- Up to 20dB of noise cancellation

- Consumption 40W

- Humidity 95%

- Depth 355mm
- Weight 8,4Kg

The product specifications and features are subject to change without prior notice