

MicAD-F

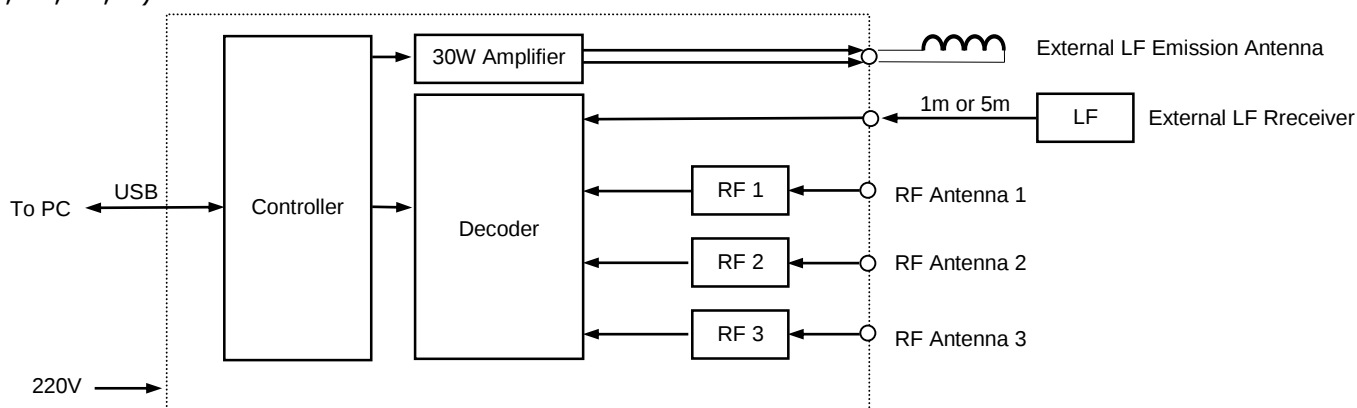


Hardware description

The **MicAD-F** tool allows to send LF Data or LF CW and, in the same time, to decode up to 3 different internal channels and 1 external channel.

The 3 internal channels are RF receivers (ex : 315MHz, 433.92MHz, 434.42MHz).

The external channel is usually an active LF receiver (125kHz), but another receiver can be connected (RF, LF, IR, ..).



Software description

A specific software (**MicAD.exe**) allows to control this bench with a useful and simple GUI. RF frames descriptions must be defined. During Run phase, the software find the nearest appropriate description and display all decoded fields.

Note : the software is the same when using **MicAD-M** tool.

Main characteristics

LF Sending part

Power	30W
Frequency	119kHz , 121.9kHz , 125kHz , 128.2kHz , 131.6kHz
Data Baudrate	1960 bds Manchester to 10kbds Manchester (512µs to 100µs per Manchester bit)
CW Baudrate	1960 bds Manchester to 10kbds Manchester (512µs to 100µs per Manchester bit, and 1ms, 5ms, 10ms, 50ms)
Coding	Standard or Inverted Manchester
Data Modes	Manual, Script, Broadcast, Individual

RF receiving part

Frequency	Basis : 315MHz, 433.92MHz, 434.42MHz (ASK and FSK)
Sensibility	-100dBm
Baudrate	1kbds Manchester to 20kbds Manchester
Tolerance	+/- 20% on decoding baudrate
Connectors	SMA

LF external active antenna

Frequency	125kHz
Temperature	max 110°C
Baudrate	1kbds Manchester to 5kbds Manchester

Frame decoding

Protocols	16 different descriptions per channel (baudrate and content)
Coding	Manchester standard or inverted, Biphase-S, PWM
Dating	10µs resolution for all channels
Frame length	512 bits max
Fields	- automatic display for each frame field - physical value conversion - conversion table
Checksum	Checksum calculation (Add, Xor, Not, CRC8)
ID	ID filtering

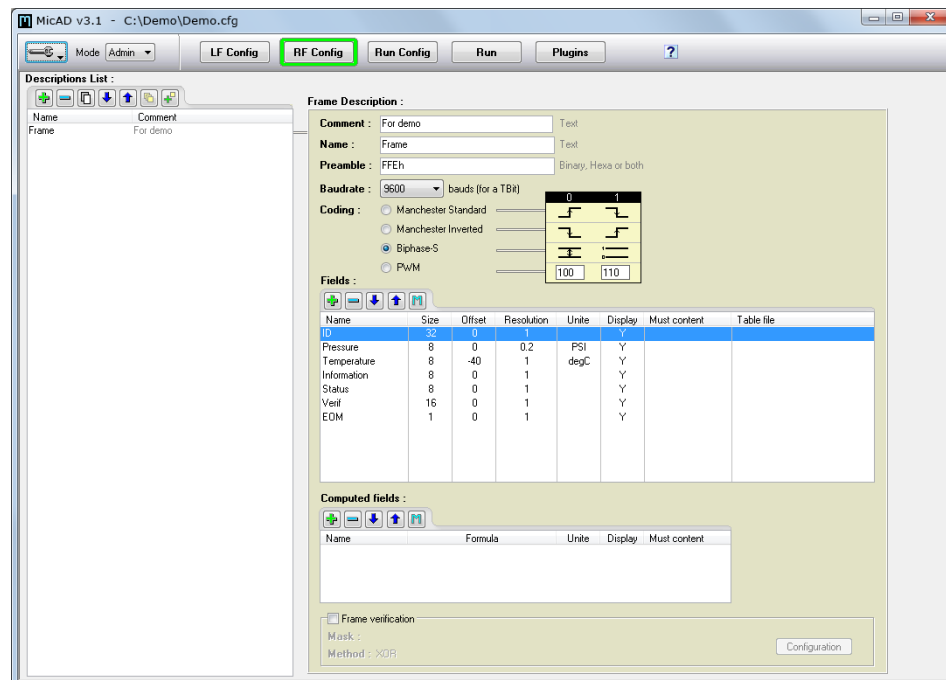
Software

Display	Full datas list, sorted ID lists, graphical view
Files	Full datas file, sorted ID files (all files are in XML format)
Requirements	minimum configuration : Windows XP SP1, 512 MB Ram, 1GHz frequency

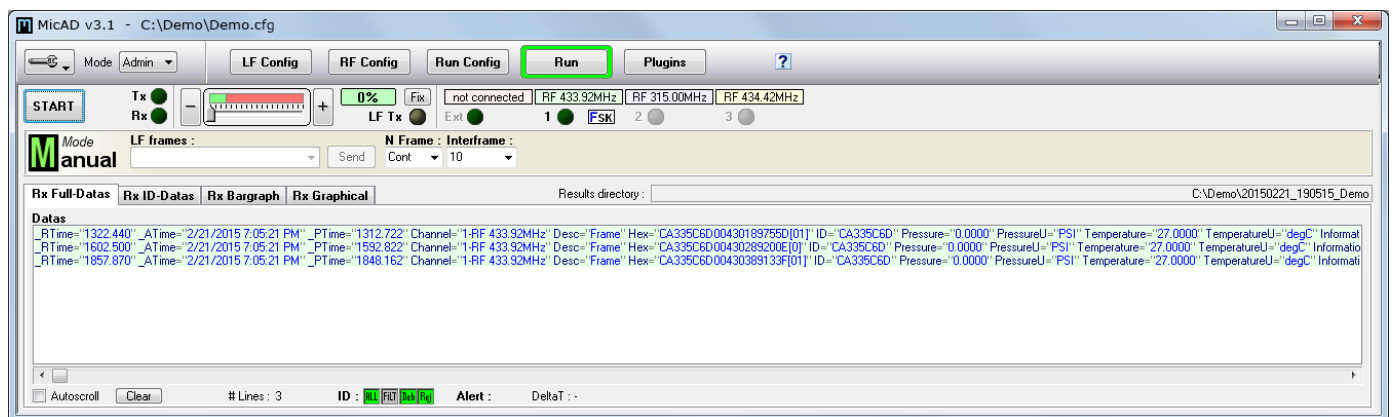


Rear panel

Screen shots



RF Description



Frames decoding