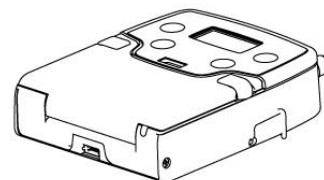
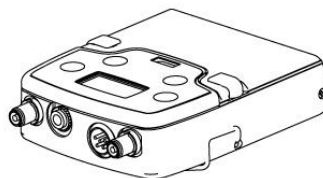
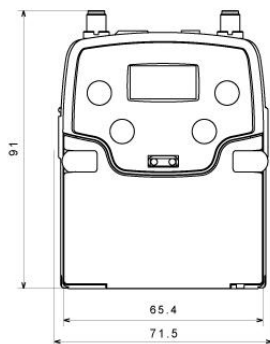


Main Features

- TRUE DIVERSITY RECEIVER with 2 whip antennas
- DSP Analogue & Digital Audio Output (AES3)
- Up to 230 MHz bandwidth in 470/700 MHz range
- Wideband and Narrowband DSP-FM operation (SW selectable):
 - Narrowband allows more 50% band efficiency
 - Narrowband allows about 3dB extra sensitivity and noise immunity
- High contrast OLED display
- Automatic scan & transmitter programming through infrared
- DSP based for extreme flexibility and multi-companding operations
- Miniature design with integrated battery pack:
 - rechargeable lithium pack
 - 2 x AA batteries
- Operation and charger (lithium) thru USB connector
- Monitor & control through USB and Wisycom Manager 2.0 (computer SW):
 - This transform MPR51 in a quick portable spectrum scanner!



TECHNICAL DATA

- Frequency ranges : 470 ÷ 700 MHz, other on request
- Switchable channels : 2400 user programmable frequencies, organized in 40 groups of 60 channels.
- Switching-window : up 232 MHz.
- Frequencies : microprocessor controlled frequency synthesizer circuit, with 25 kHz minimum step.
The frequencies can be easily PC reprogrammed with the optional UPKmini Programming Kit or micro-USB
- Frequency error : < ± 2.5 ppm, in the rated temperature range.
- Temperature range : -10 ÷ +50 °C.
- Modulation : FM mono, wideband or narrowband IFB (SW selectable)
- Max deviation : ± 54 kHz (wideband), ± 40 kHz (narrowband)
- Antenna input imp. : 50 ohm sma type (SWR < 1:2; typ. 1:1.4).
- Sensitivity : $\Rightarrow 2 \mu\text{V}$ (6 dB μV), for SND/N > 52 dB;
in the whole switching-window [1].
- Amplitude response : < 0.5 dB (for RF input signal: 6 dB μV ÷ 100 dB μV).
- Adjacent chan. Sel. : > 80 dB typical (for channel spacing ≥ 400 kHz)
- Spurious emissions : < 2 nW (typical = 0.1 pW).
- Noise Reduction : ENR / ENR-1.2 (Wisycm Extended-NR) , noise optimized
ENC / ENC-1.2 (Wisycm Extended-NC), voice optimized & with reduced pre-emphasis
ENS (for live application)
 \Rightarrow Others, compatible with most systems, thru an internal DSP emulation of SA572, SA575 and Rms envelope compander chip set, fully user programmable
- AF bandwidth : 30 Hz ÷ 20 kHz (wideband), 30 Hz ÷ 15 kHz (narrowband)
- Frequency response : ± 0.5 dB in the 30 Hz ÷ 19 kHz range (wideband),
 ± 0.5 dB in the 30 Hz ÷ 13 kHz (narrowband)
- Distortion : 0.3 % typical.
- SND/D ratio (Anal.) : 104 dB typical [1]
- SND/D ratio (AES3) : > 125 dB typical
- Powering : - 2 x IEC-LR6 1.5V size-AA alkaline or NiMh rechargeable
- C3-V3 battery pack
- KLIC 8000 or CR-V3R lithium (i.e. DR9708 duracell)
- Battery life : approx. 7 hours with MPRLBP Lithium-ion battery pack CS-KLIC8000 type
- Weight : 100 g approx. without batteries

Audio Output

- Audio output : Electronically balanced on 3 pin mini-XLR Female connector
analogue or digital (SW selectable)
- Audio line-out lev. : MAX +18 dBu (peak deviation), adjustable in one dB step in a range of 54 dB
- Digital line-output : AES3 @ 48 kHz
- Audio line Impedance : ≤ 200 ohm
- Headphone-output : Stereo Plug 3.5mm(TRS) Locking (M6 x 0.5 thread) with 2 X 100mW @ 32 Ohm

In compliance with

USA: **FC**, 47 CFR 15 Subpart B
CAN RSS-Gen/CNR-Gen

NOTE [1]: RMS value, 22 Hz / 22 kHz, unweighted.

The MPR52ENG receiver complies with ETSI specifications: ETS 300 422