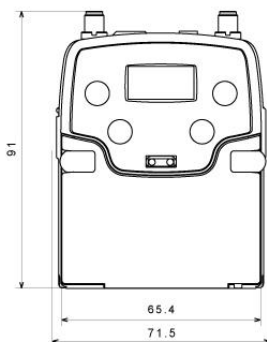
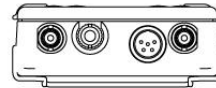
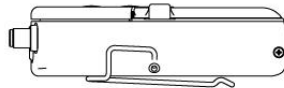
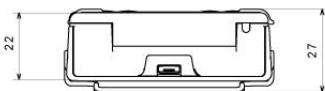


Main Features

- Two channels diversity receiver
- DSP Analogue & Digital Audio Output (AES3)
- Up to 790 MHz bandwidth in 470/1260 MHz range
- Next Gen Multiband front-end filtering:
 - High Q moving filter in 470-960 MHz
 - High Q moving filter in 960-1160 MHz (DME)
 - Country specific saw filters:
USA 940-960 MHz &
Japan 1240-1260 MHz or 806-810MHz
- Wideband and Narrowband DSP-FM operation (SW selectable):
 - Narrowband allows more 50% band efficiency
 - Narrowband allows about 3dB extra sensitivity and noise immunity
- Extreme low noise VCO with ultrafast spectrum scan for optimal quick & easy setup
- 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 MPR52 in a quick and low noise portable spectrum scanner!



TECHNICAL DATA

- Frequency ranges : 470 ÷ 800 MHz and 960 ÷ 1160 MHz (DME)
 MPR52 B1 ⇒ option 940 ÷ 960 MHz
 MPR52 B2 ⇒ option 1240 ÷ 1260 MHz
 MPR52 B3 ⇒ option 806 ÷ 810 MHz
- Switchable channels : 2400 user programmable frequencies, organized in 40 groups of 60 channels.
- Switching-window : up 790 MHz.
- Frequencies : microprocessor controlled frequency synthesizer circuit, with 5 kHz minimum step.
 The frequencies can be easily PC reprogrammed with the optional UPKmini Programming Kit or micro-USB
- Frequency error : $\pm 2.5\text{ ppm}$, in the rated temperature range.
- Temperature range : -10 ÷ +50 °C.
- Modulation : FM mono, wideband or narrowband IFB (SW selectable)
- Max deviation : $\pm 54\text{ kHz}$ (wideband), $\pm 40\text{ kHz}$ (narrowband)
- Antenna input imp. : 50 ohm sma type (SWR <math>< 1:2</math>; typ. 1:1.4).
- Sensitivity : ⇒ $2\text{ }\mu\text{V}$ (6 dB μV), for SND/N > 58 dB;
 ⇒ $5\text{ }\mu\text{V}$ (14 dB μV), for SND/N > 98 dB.
 in the whole switching-window [1].
- Amplitude response : <math>< 0.5\text{ dB}</math> (for RF input signal:6 dB μV ÷ 100 dB μV).
- Adjacent chan. Sel. : > 80 dB typical (for channel spacing $\geq 400\text{ kHz}$)
- Spurious emissions : <math>< 2\text{ nW}</math> (typical = 0.1 pW).
- Noise Reduction : ENR / ENR-1.2 (Wisycom Extended-NR) , noise optimized
 ENC / ENC-1.2 (Wisycom Extended-NC), voice optimized & with reduced pre-emphasis
 ENS (for live application)
 ⇒ 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 : $\pm 1\text{ dB}$ in the 30 Hz ÷ 20 kHz range (wideband),
 $\pm 1\text{ dB}$ in the 30 Hz ÷ 15 kHz (narrowband)
- Distortion : 0.3 % typical.
- SND/D ratio (Anal.) : 100 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. 5 hours with MPRLBP Lithium-ion battery pack CS-KLIC8000 type (double receiver configuration)
 approx. 7 hours with MPRLBP Lithium-ion battery pack CS-KLIC8000 type (single receiver configuration)
- Weight : 100 g approx. without batteries

Audio Output

- Audio output : Electronically balanced on 5 pin mini-XLR Female connector
 analogue or digital (SW selectable)
- Digital line 1 & 2 : Electronically balanced on 5 pin mini-XLR Male connector
- Digital line-output : AES3 @ 48 kHz
- Audio line Impedance : $\leq 200\text{ ohm}$
- Headphone-output : Stereo Plug 3.5mm(TRS) Locking (M6 x 0.5 thread) with 2 X 100mW @ 32 Ohm

VARIANTS: MPR52-ENG- <Freq Range>

▪ FREQUENCY RANGE

- B1** 470-800 MHz, 940-960 MHz (for USA), 960-1160 MHz (DME)
- B2** 470-800 MHz, 960-1160 MHz (DME), 1240-1260 MHz (for Japan)
- B3** 470-800 MHz, 960-1160 MHz (DME), 806-810 MHz (for Japan)

- 1: GND 4: +Out2
- 2: +Out1 5: - Out2
- 3: - Out1

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

