

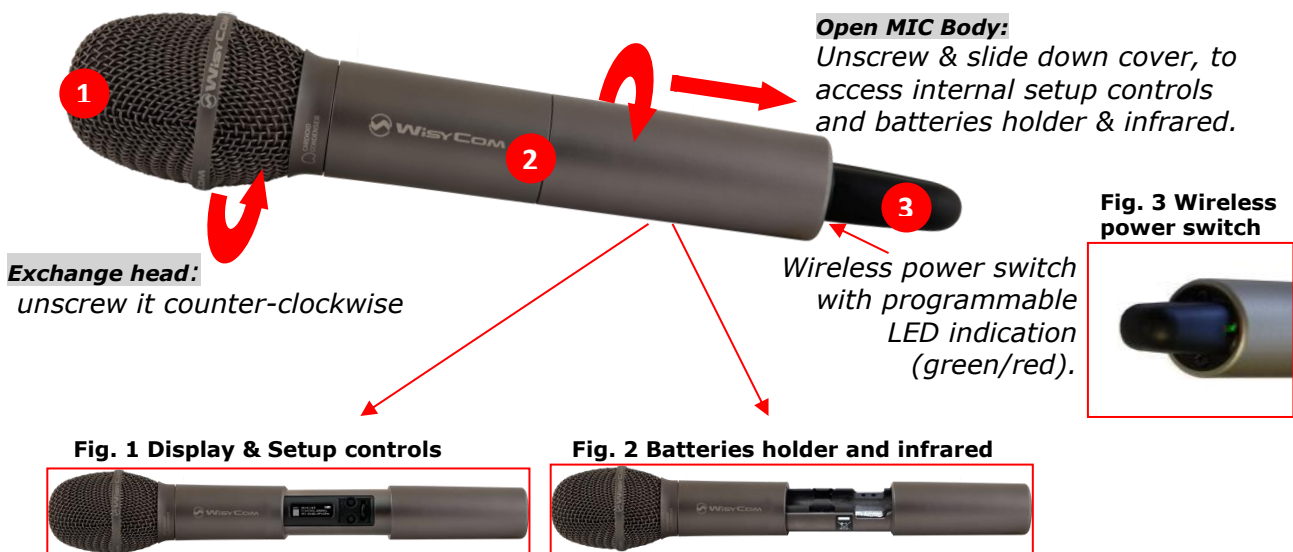
Main Features

- Up to **232 MHz bandwidth** in 470/952 MHz range(*)
- Enhanced robustness against intermodulation and antenna performances thanks to special "intermodulation cancellation" circuit and additional circulator (optional)
- Thin and ergonomics body design
- Ultra-light and tough aluminum alloy body
- Software switchable companding systems:
 - ENR (noise optimized)
 - ENC (voice optimized)
- Battery:
 - 2 AA Alkaline or rechargeable NiMH with quick release system
- Autonomy: about 11h (50mW with Alk. batteries)
more 14h (10mW with Alk. batteries)
- Infrared interface
- Easy and quick to setup thru an OLED display
- 1 joggle selectors and 4 quick setup buttons (level/channel adjustment)
- Available also with MCM type premium head (DPA/Schoeps/Milab/Audio-technica)



General Description

MTH400 is a handheld transmitter especially designed for professional wireless microphone applications. It is very easy and quick to use thanks to OLED display and 1 joggle selector and 2 buttons for straight setup of gain and channel. MTH400 benefits also of the latest Wisycom RF technology, it has been especially designed for robustness against noise and self-interference thanks to a special "intermodulation cancellation" circuit (available also with the RF circulator option).

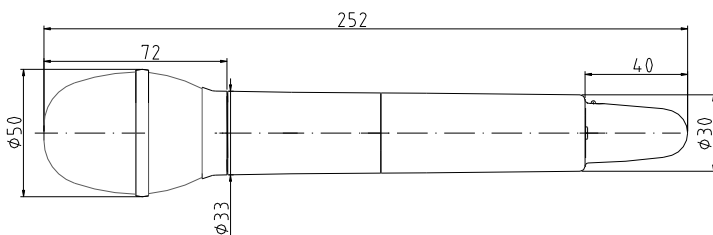


MTH400 Handheld Wireless Professional Transmitters

TECHNICAL SPECIFICATIONS

Switchable channels	2400 allocated by 40 groups of 60 channels (in specific frequency range), quickly selectable with dedicated buttons
Switching window	Up to 232 MHz, depending on band (see below code table)
Frequencies	Quartz PLL frequency synthesizer circuit (25 kHz step)
Frequency stability	▪ $\pm 2,5$ ppm (in the rated temperature range)
Temperature range	-10 \div +55 °C
Max RF power	▪ 50 mW (ERP) when high power selected (note: In some countries high power can be disabled, for local norm!) ▪ 10 mW (ERP) when low power selected (to respect some local norm)
Spurious emissions	< 2 nW
Modulation	wideband FM, with 50 μ s pre-emphasis
Nominal deviation	± 40 kHz (Peak deviation = ± 56 kHz)
Telemetry feature	MTH300 transmits also a digitally modulated sub-carrier, suitable for: ▪ <i>tone-squelch operating</i> ▪ <i>remote battery monitoring</i> ▪ <i>optional PTT (push to talk) operation</i>
AF input connection	Directly interchangeable microphone-heads
AF input level	-60 \div +0 dBu nominal, quickly settable by steps of 2 dB with dedicated buttons
Max. input level	+6 dBu
Max sound pressure	150 dB SPL (0,5% THD), with MCM301/MCM302/MCM303/MCM304/MCM305 condenser-heads
Noise-Reduction	ENR (WisycOM Extended-NR), with independent Attack- and Recovery-time, noise optimized ENC (WisycOM Extended-NC), with independent Attack- and Recovery-time, voice optimized & with reduced pre-emphasys
AF bandwidth	45 Hz \div 21 KHz (3dB) 55 Hz \div 20 KHz (1dB)
Distortion	< 0.3 % (0.15 % typ.)
Signal-to-noise ratio	typ. 115 dB (A) _{rms} with 40kHz deviation typ. 121 dB (A) _{rms} with 56kHz deviation
Led	Led indication with bicolor led (red & green) on wireless power switch: ▪ Wireless transmission status: <i>GREEN</i> on/off ▪ Modulation peek (if activated): <i>RED</i> ▪ Battery lifetime status: <i>GREEN - steady</i> (> 25%) - <i>slowly blinking</i> (< 25%) - <i>quickly blinking</i> (<12%) ▪ Ptt status: <i>RED</i> if active
Display	High contrast OLED (Organic light-emitting diode) display (96 x 36 pixels) 8 step battery lifetime indication: 7 <i>bars</i> (100%-87%-75%-63-50%-38%-25%) and " <i>empty bar</i> " quickly blinking (12% remaining)
Power supply	2 AA size cell (Alkaline, rechargeable NiMH)
Battery life (alkaline)	approx. 11 hours @ 50mW continuous working; up to 14 hours @ 10mW
Dimensions	\Rightarrow body max. diameter 33 mm (without microphone-head) \Rightarrow total length 183 mm (without microphone-head)
Weight	Approx. 300g, including battery and MCM3xx (condenser) mic-head (approx. 260g batteries excluded)

Note: The above technical specifications refer to the MTH 400 "transmitter" section. The acoustic specs are relevant to the microphone-head used. The MTH 400 transmitter complies with ETS 300 422.



OPTION CODE MTH400-YZ-O:

• COLOR (Y)

- B** body color "matt black"
- T** body color titanium gray, (ceramic coating)

• FREQUENCY RANGE (-Z)

- | | |
|----------|-------------|
| 1 | 470-640 MHz |
| 2 | 566-798 MHz |
| 3 | 510-698 MHz |

• OTHER OPTIONS (-O)

EXAMPLE: MTH400 B2 is color matt black, and 566-798 MHz frequency range



Before putting the device into operation, please observe the respective country-specific regulations