

WIRELESS MICROPHONE SYSTEMS

MTP30

-D option for DPA microdot connector

-L option for LEMO connector

Ultra-lite Wireless Professional Transmitters

Main Features

- ⇒ Up to 122 MHz bandwidth in 470/880 MHz range
- ⇒ Enhanced robustness against inter-modulation and antenna performances:
 - RF part with pass-band filter and circulator (option)
- ⇒ Miniature design with flexible pcb (no connectors) for extended reliability
- ⇒ Ultra-light metal alloy body (80g without batteries)
- ⇒ ENR compander system
- ⇒ Battery:
 - 2 AA Alkaline or rechargeable NiMH
- ⇒ Autonomy:
 - > 10h @ 50mW output power
 - > 14h @ 10mW output power
- ⇒ Infrared interface for management and firmware update
- ⇒ Easy and quick to setup thru an Oled display gain/freq button and a joggle selector
- ⇒ Extended regulation on Mic input gain: 80dB in 2dB step
- ⇒ Max input level 26dBu (15.5 V clipping) to connect directly to mixers and instruments



General Description

"MTP30 is an extremely small and light pocket transmitters especially designed for professional wireless microphone applications"

Very easy and quick to use thanks to OLED display and gain/freq button and an easy joggle selector.

MTP30 benefits also of the latest Wisycom RF technology along with an enhanced robustness against noise and inter-modulation (available also with the RF circulator option).

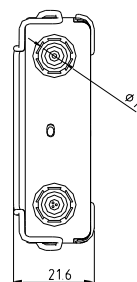
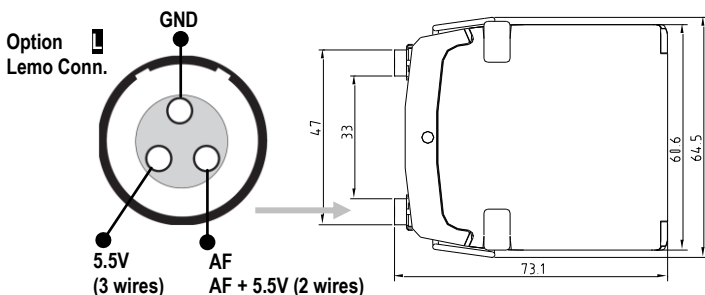


MTP30 470 ÷ 880 MHz UHF HAND-HELD TRANSMITTER



TECHNICAL SPECIFICATIONS

Switchable channels	480 allocated by 8 groups of 60 channels (in the 470 ÷ 880 MHz range), quickly selectable with dedicated buttons
Switching window	70 to 100 MHz, depending on band (see below code table): <ol style="list-style-type: none"> 1 470-566 MHz 2 518-606 MHz 3 558-678 MHz 4 630-750 MHz 5 700-822 MHz 6 770-870 MHz
Frequencies	Quartz PLL frequency synthesizer circuit (25 kHz step)
Frequency stability	± 2,5 ppm (in the rated temperature range)
Temperature range	-10 ÷ +55 °C
Max RF power	<ul style="list-style-type: none"> • 50 mW (ERP) when high power selected • 10 mW (ERP) when low power selected
Spurious emissions	< 2 nW
Modulation	wideband FM, with 50 µs pre-emphasis
Nominal deviation	±40 kHz (Peak deviation = ±56 kHz)
Telemetry feature	MTP30 transmits also a digitally modulated sub-carrier, suitable for: <ul style="list-style-type: none"> • tone-squelch operating • remote battery monitoring • optional PTT (push to talk) operation
AF input connector LEMO option	Configurable on 'mic' display menu in 3 options: <ul style="list-style-type: none"> • '2 wires': → gain selectable -40 ÷ +40, no bias voltage • '2 wires + bias': → gain selectable -20 ÷ +40, 5.5 V bias voltage (4k7 internal resistance) • '3 wires + bias': → gain selectable -20 ÷ +40, 5.5 V bias voltage (4k7 internal resistance)
AF input level	80 dB adjustable range from -60 dBu (775 µV) to 20 dBu (7.75 V) at nominal deviation (1 kHz), adjustable in 2 dB steps
Max. input level	+26 dBu (15.5 V) at clipping, +20 dBu (7.75 V) at nominal level
Noise-Reduction	ENR (Wisycom Extended-NR), with independent Attack-time and Recovery-time
AF bandwidth	<ul style="list-style-type: none"> • 45 Hz ÷ 21 KHz (3dB) • 55 Hz ÷ 20 KHz (1dB)
Distortion	< 0.3 % (0.15 % typ.)
Signal-to-noise ratio	<ul style="list-style-type: none"> • typ. 115 dB (A)_{rms} with 40 kHz deviation • typ. 121 dB (A)_{rms} with 56 kHz deviation
Led	Led indication with bicolor led (red & green) on wireless power switch: <ul style="list-style-type: none"> • Wireless transmission status: <i>GREEN</i> on/off • Battery lifetime status: <i>GREEN</i> - <u>steady</u> (> 25%) - <u>slowly blinking</u> (< 25%) - <u>quickly blinking</u> (<12%) • Modulation peek (if activated): <i>RED</i> • Ptt status: <i>RED</i> if active
Display	High contrast OLED (Organic light-emitting diode) bicolor display (96 x 36 pixels) 8 step battery lifetime indication: <u>7 bars</u> (100%-87%-75%-63-50%-38%-25%) and " <u>empty bar</u> " quickly blinking (12% remaining)
PTT function	Pin 3 of the AF connector can be setup to an external push button
Power supply	2 AA size batteries (Alkaline, rechargeable NiMH)
Battery life (2 AA alkaline)	<ul style="list-style-type: none"> • approx. 10 hours @ 50mW continuous working • approx. 14 hours @ 10mW continuous working
Dimensions	73 x 61 x 17.5 mm (Height-Width-Depth) without clip
Weight	Approx 80 g. without batteries



OPTION CODE MTP30-X-Y-Z:

• **AUDIO CONNECTOR (-X)**
 1 3 PIN LEMO CONNECTOR

• **COLOR (-Y)**
 P body color "titanium gray"
 C body color "champagne"
 B body color "matt black"

EXAMPLE: MTP30 LB4 is 3 pin LEMO connector, color matt black, and 630-750 MHz frequency range

• FREQ. RANGE (-Z)

- 1 470-566 MHz
- 2 518-606 MHz
- 3 558-678 MHz
- 4 630-750 MHz
- 5 700-822 MHz
- 6 770-870 MHz