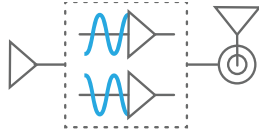
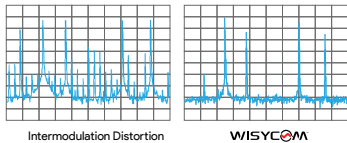


MTP40S is a small, lightweight pocket transmitter designed for professional wireless microphone applications.

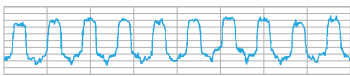
Wideband RF Technology featuring a double conversion stage - intermediate frequencies combined with SAW filters provide the widest switching bandwidth available between 470-700MHz, 2400 user-defined frequencies (40 group by 60 freq.). The entire UHF band in one device.



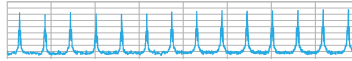
IMD Phase Cancellation within our advanced linear technology eliminates intermodulation distortion for more robust signal, extended range, and the ability to operate several transmitters within close-proximity to each other.



Evenly Spaced Frequencies - The #1 benefit of IMD Phase Cancellation is the ability to utilize evenly spaced frequencies (Wideband Channel Filters with 400 kHz min. spacing) for more channels with no intermod issues.



Narrowband Channel Filters - MTP40S Band 8 transmitters generate Narrowband Channel Filters (200kHz min. spacing) to deliver twice as many channels into the existing spectrum.



Multi-Companding - SHARC™ DSP delivers ENC and ENR algorithms for perfect audio in any application with less than 1ms delay - with create and shape presets for the desired sound.



Low Heat Generating - The MTP40S transmitter is designed for maximum performance with minimal power consumption which generates less heat - it is always comfortable to wear or operate.



Other Features:

- Rugged, miniature design with flexible pcb (no connectors)
- Ultra-light metal alloy body
- Infrared interface for quick frequency setup
- Quick setup with joggle selector, 4 quick setup buttons (level/channel adjustment) Extended
- Highly adjustable Mic Gain: 80dB in 1dB steps
- Max input level 26dBu (15.5 V) for clip-resistant audio when connecting to mixers or instruments
- Available with Lemo or DPA Microdot (special order) input connection
- 48V phantom power available for wired mic with PHA48 accessory (optional)
- Hardware Limiter for additional peak input protection (30 dB above peak)
- Powering: 2 AA Batteries - Alkaline, rechargeable NiMH or Lithium
- Battery life:
 - > 10h @ 50mW output power
 - > 14h @ 10mW output power



Subject to change without notice

TECH SPECS

Switchable channels	2400 allocated by 40 groups of 60 channels, quickly selectable with dedicated buttons
Switching window	Up to 232 MHz, depending on band (see Variants below)
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	• 10 mW (ERP) (to respect some local norm) • 50 mW (ERP) (note: in some countries middle power can be disabled, for local norm!) • 100 mW (ERP) (note: in some countries high power can be disabled, for local norm!) Only for MTP40S
Spurious emissions	< 2 nW
Modulation	wideband FM, with pre-emphasis
Nominal deviation	±40 kHz (Peak deviation = ±56 kHz)
Telemetry feature	It transmits also a digitally modulated sub-carrier, suitable for: • tone-squelch operating • remote battery monitoring • optional PTT (push to talk) operation
AF input connector	Configurable on 'mic' display menu in 5 options:
LEMO option	• '2 wires': gain selectable -60 ÷ +40 (-54 dBu ÷ +26 dBu peak), no bias voltage • '2 wires + bias': gain selectable -60 ÷ +40 (-54 dBu ÷ + 6 dBu peak), 5.5 V on 4k7 bias supply • '3 wires': gain selectable -60 ÷ +40 (-54 dBu ÷ +26 dBu peak) • '2 wires & phantom': gain selectable -60 ÷ +40 (-54 dBu ÷ +26 dBu peak) • '2 wires + bias & phantom': gain selectable -60 ÷ +40, (-54 dBu ÷ + 6 dBu peak), 5.5 V on 4k7 bias supply:
AF input level	100 dB adjustable range from -54 dBu (775 uV) to 46 dBu (15.5 V) at peak deviation (1 kHz), adjustable in 1 dB steps
Max. input level	+46 dBu (15.5 V) at clipping, +20 dBu (7.75 V) at nominal level
Noise-Reduction	ENR (Wisycom Extended-NR), with independent Attack- and Recovery-time, noise optimize ENC (Wisycom Extended-NC), with independent Attack- and Recovery-time, voice optimized & with reduced pre-emphasys
AF bandwidth	• 45 Hz ÷ 21 KHz (3dB) • 55 Hz ÷ 20 KHz (1dB)
Distortion	< 0.3 % (0.15 % typ.)
Signal-to-noise ratio	• 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: • Wireless transmission status: GREEN on/off • Battery lifetime status: GREEN - steady (> 25%) - slowly blinking (< 25%) - quickly blinking (<12%) • Modulation peek (if activated & the limiter is disabled): RED • PTT status: RED if active • Limiter into action: Blue
Display	High contrast OLED (Organic light-emitting diode) white display (128 x 32 pixels) 8 step battery lifetime indication: 7 bars (100%-87%-75%-63-50%-38%-25%) and "empty bar" 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 or Lithium)
Battery life	With 2 AA alkaline approx. 14 hours @ 10mW continuous working approx. 10 hours @ 50mW continuous working approx. 7 hours @ 100mW continuous working
Dimensions	2.9" x 2.6" x .9" (73.1 x 64.5 x 21.6 mm) Height-Width-Depth with clip
Weight	Approx. 85 g. without batteries (135g with batt.)



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