MTH400 User Manual

Wideband Wireless

Professional Handheld

Transmitter

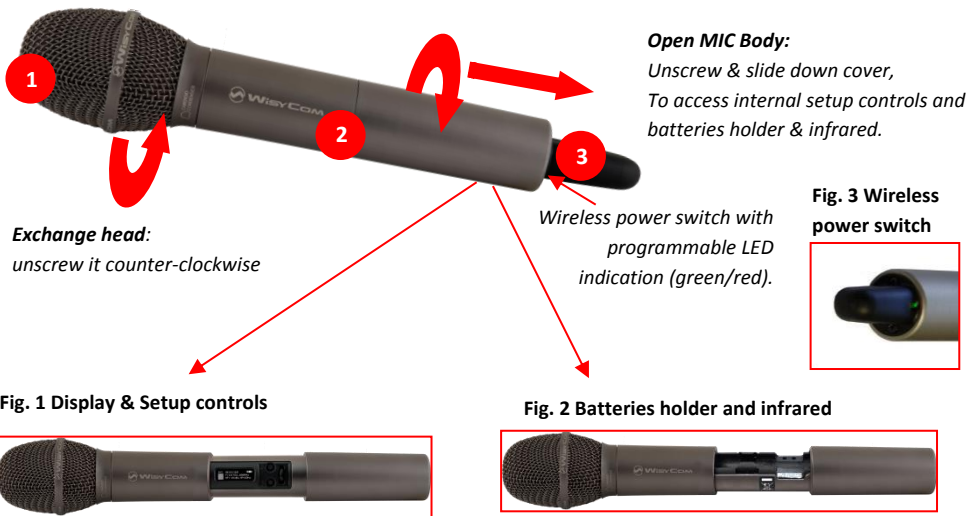SN: _____

Rev.06 (rif. FW 1.30.0A)

Date: 13 May 2015

INTRODUCTION

MTH400 is a professional radio microphone especially designed for broadcast/high quality applications.

MTH400 is composed by 3 detachable parts:

- **MIC Head** (available with cardioid/hyper-cardioid polar pattern).

- **MIC Body** (the below part can be open to access "Display & Setup controls" area (fig.1) and on the back the "Batteries holder & Infrared" area (fig. 2).

- **MIC Antenna**, made with fibreglass reinforced housing and with a "Wireless power switch" (fig. 3). "MIC Antenna" is fastened to body with 2 anvils and a micro-connector.

Open MIC Body:
Unscrew & slide down cover,
To access internal setup controls and
batteries holder & infrared.

Fig. 3 Wireless power switch

Wireless power switch with
programmable LED
indication (green/red).

Exchange head:
unscrew it counter-clockwise

Fig. 1 Display & Setup controls

Fig. 2 Batteries holder and infrared

SAFETY INSTRUCTION

- Read this safety instruction and the manual first
- Follow all instructions and information.
- Do not lose this manual.
- Do not use this apparatus under the rain or near the water.
- Do not install the apparatus near heaters or in hot environments, do not use outside the operating temperature range.
- Do not open the apparatus, only qualified service technician are enabled to operate on it. The apparatus needs servicing when it is not properly working or is damaged by liquids, moisture or other objects are fallen in the apparatus.
- Use only accessories or replacement parts authorized or specified by the manufacturer.
- Clean the apparatus only with dry cloths, do not use liquids.
- Report the serial number and the purchasing date in front of the manual. It is needed to have proper replacement parts or accessories from the manufacturer.
- When replacement parts are needed, use only replacement parts authorized from the manufacturer. Substitution with not authorized parts could result in electric shock, hazards or fire.
- Keep attention on all the labels with warnings or hazards on the apparatus.

LED INDICATION (POWER SWITCH)

Led indication with bicolor led (**red** & **green**) on wireless power switch (fig. 3):

- Wireless transmission status: **green** when RF transmission power is on (on power on the device, this LED is **red** and become green when the RF transmission power is on).
- Battery status: **green** steady, slowly blinking (< 25%), quickly blinking (<12%)
- Modulation peak (if activated): **red**
- PTT status: **red** if active

BATTERIES

MTH400 is working with 2 AA alkaline, NiMH or Lithium batteries (select correct type on setup controls). Battery status can be checked on internal OLED display or looking to LED status on power switch (see LED INDICATION section) ❸ .

Battery substitution:
- Open MIC body: unscrew counter-clockwise the below cover to access batteries holder;
- Take out below battery to release upper battery leverage;
- 2nd battery falls down and can be remove

Attention: always replace both the batteries

POWERING UP

Move the wireless power switch (fig. 3) in upper position (towards MIC body) to activate wireless transmission: the front LED ❸ lights up red and then green when the RF transmission power is on (blinking when battery is low!)

SETUP CONTROL

Open MIC Body to access the "display and controls" area (fig. 1):

- **A.** Graphics Display (**OLED**)
- **B.** Channel selection buttons (**ch**)
- **C.** MIC gain setup buttons (**gain**)
- **D.** 3 position selector (**up** / **down** / **click**)

Fig. 4

OLED POWER UP (OLED IS IN OFF CONDITION)

Pushing down selector (**click**), the graphic display oled turns on.
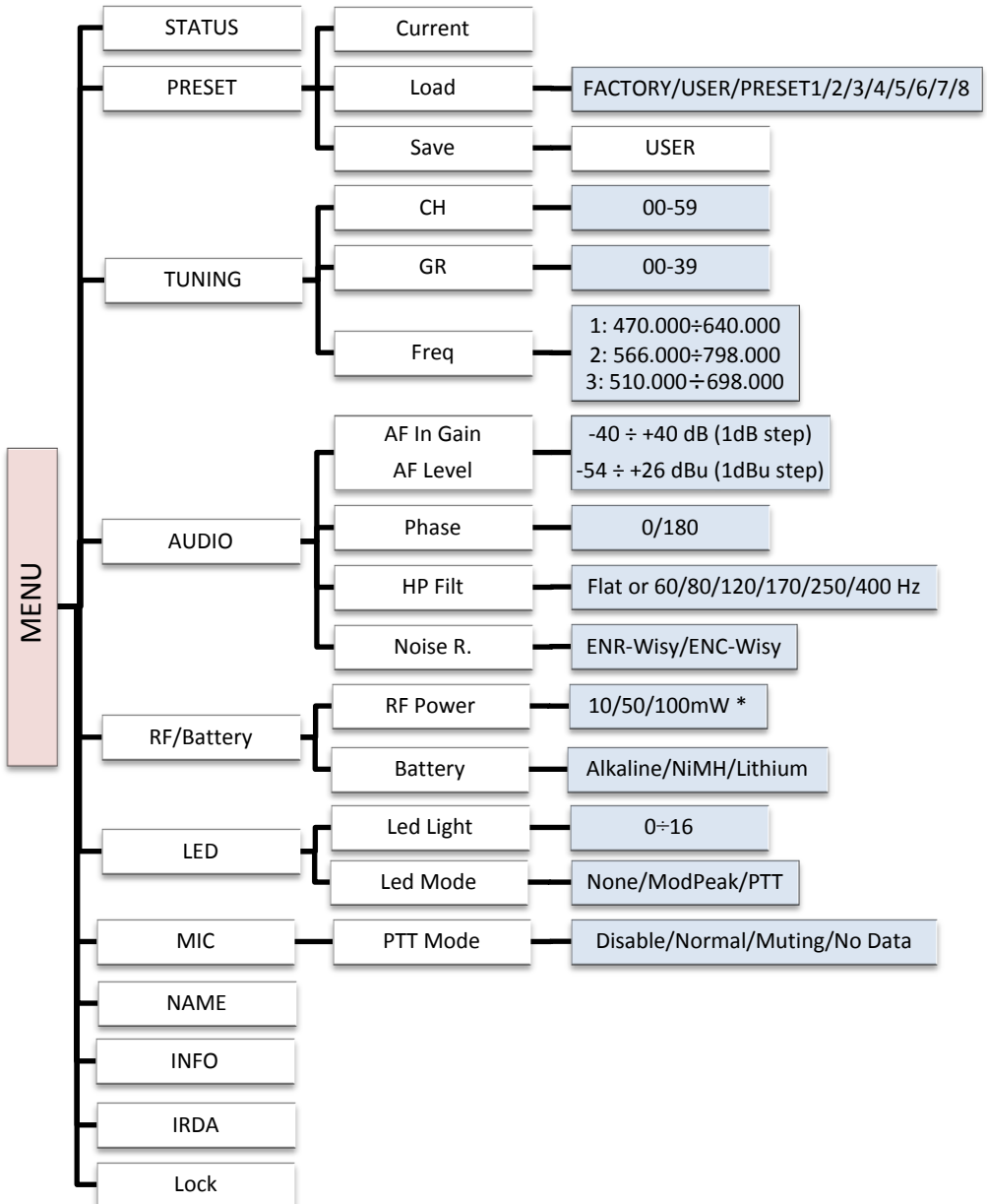At the beginning a <START UP> menu is displayed, then <STATUS> menu enters automatically. In order to keep the <START UP> menu active, it is necessary to push and hold selector (click) for at least 2 sec.

OLED POWER DOWN (OLED IS IN ON CONDITION)

Display turns off automatically after 15 sec, unless in <AUDIO> menu (with audio level < 5% from nominal).

DISPLAY MENU

Using **up/down** selector all menus can be accessed in sequence.

MENU			
	STATUS	Current	
	PRESET	Load	FACTORY/USER/PRESET1/2/3/4/5/6/7/8
		Save	USER
	TUNING	CH	00-59
		GR	00-39
		Freq	1: 470.000÷640.000 2: 566.000÷798.000 3: 510.000÷698.000
	AUDIO	AF In Gain AF Level	-40 ÷ +40 dB (1dB step) -54 ÷ +26 dBu (1dBu step)
		Phase	0/180
		HP Filt	Flat or 60/80/120/170/250/400 Hz
		Noise R.	ENR-Wisy/ENC-Wisy
	RF/Battery	RF Power	10/50/100mW *
		Battery	Alkaline/NiMH/Lithium
	LED	Led Light	0÷16
		Led Mode	None/ModPeak/PTT
	MIC	PTT Mode	Disable/Normal/Muting/No Data
	NAME		
	INFO		
	IRDA		
	Lock		

Preset parameters

* Depending on the Power Profile

Using <up/down> selector all menus can be accessed in sequence, push <click> to enter edit mode (on the left side of the display appear "EDIT" and the selected parameter starts blinking):

<**up/down**> to setup field
<**click**> again to confirm changes and exit.
If no button is pressed, the device exits the EDIT mode and returns the parameter as it was previously set.

<START UP> menu

These menus are displayed during power up for few seconds.

MTH400 130 0A BAND: 566-798 MHz SN: R4528525	This menu gives indication on product: - product id (MTH400), - the firmware release (ex. *1.30.0A*), - the band in extended format and - the serial number. ***Keep selector pushed to hold this menu!***

<STATUS> menu

This is the first menu displayed after power up.

BATT CH:03 GR:03 RF 50 Freq:610.000MHz AF:-03dB HP:60Hz BATT RECEIVER RF 50 Freq:610.000MHz AF:-03dB HP:60Hz	Major info are displayed: - Current channel/group (i.e. CH:03 GR:03) or Receiver's name (i.e. RECEIVER) if the microphone has already been synchronized with a receiver - Current frequency (i.e. 610 MHz) - Mic gain (i.e. -03dB) and high pass filter (i.e. 60Hz) - If in the top right there is "RF10", "RF 50"or "RF 100", the transmission is active respectively at 10, 50 or 100mW (see RF/BATTERY menu) - On left side, the battery bar is displayed

<PRESET> menu

This menu can be entered by scrolling selector.

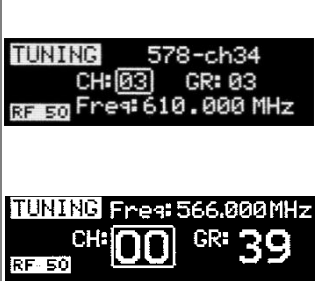|	
PRESET * Preset01 save to: USER	MTP41 can recall configuration presets. "FACTORY" recalls the Wisycom factory configuration. "USER" recalls the user configuration (the transmitter configuration is copied into the USER using the "save to" submenu). All "USER" menus are not locked by default, thus this is quick way to unlock features! When the user changes some parameters from the PRESET configuration (for less than frequency) a star appears on the top-right corner until a save command is executed.

The other 8 configuration presets are user programmable thru the infrared and the PC interface (using the programmer UPK 300/UPKMini or the receiver MRK950/MRK960).

We provide the device with some preset configurations specifically designed for certain types of microphone or applications (it's possible to change these presets in any time using the TX manager).

All parameters can be "left unchanged", "changed" or "changed and lock", allowing a very flexible way to pre-program MTH400 configuration.

<TUNING> menu

This menu can be entered by scrolling selector or using *quick channel setup* button (**ch**).

TUNING 578-ch34 **CH:03 GR: 03** **RF 50 Freq:610.000 MHz** **TUNING Freq:566.000MHz** **CH:00 GR: 39** **RF 50**	In this menu current channel/group and frequencies can be setup. The name of the group is shown on the top right of the display. *Sync* group is a quick self-settable channel synchronized by receiver (with SYNC group, on the top right of the display is shown the name of the synchronized receiver). Use the selector to change values (<**+/-**>) and <**click**> to confirm. Using quick channel setup buttons (<**CH**>), it is possible to enter quickly in the tuning menu. Note that the menu has a different layout (see the side image)

<AUDIO> menu

This menu can be entered by scrolling selector or using *quick gain setup* button (**gain**).

AUDIO AF Gain -12 dB **-42 -18 -6dB** **Peak** **AUDIO AF Level -02 dBu** **-42 -18 -6dB** **Peak** **AUDIO +00 dB** **Peak**	The sensitivity of the audio input is settable between "**AF Gain**" (measured in dB) or "**AF Level**" (measured in dBu). To help proper audio gain setting, an audio bar is supplied (with maximum peak indicator) indicating the headroom to audio peak (0 dB , nominal deviation 40KHz). *Set the gain, with the maximum input signal, avoiding the peak on the audio bar.* **TRY TO SETUP TO HAVE A MAX PEAK HOLD BAR CLOSE TO -6dB**. Using quick gain setup buttons (<**GAIN**>), it is possible to enter quickly in the audio gain menu. Note that the menu has a different layout (see the side image)
AUDIO **Phase: 0°** **HP Filt.: 60Hz**	The second <AUDIO> menu allows to set: - audio phase (0° or 180°) - High Pass filter (Flat, 60, 80, 120, 170, 250, 400 Hz)
AUDIO **Noise R.: ENR-Wisy**	The third <AUDIO> menu allows to set the noise reduction: • **ENR-Wisy**: designed for maximum noise reduction • **ENC-Wisy:** designed for maximum audio fidelity (use this in case of special vocal application or to remote instruments)

NOTE: To show the three menu screen it's necessary to scroll down with the selector.

<RF/BATTERY> menu

This menu can be entered by scrolling selector.

RF/BATTERY **RF Power:50 mW** **RF 50 Battery: Alkaline**	**RF power** can be setup to 10mW, 50 mW or 100mW (depending on the Power profile). *If it's selected "10mW", in the top right on the STATUS menu appear "RF10".* *If it's selected "50mW", in the top right on the STATUS menu appear "RF50".* *If it's selected "100mW", in the top right on the STATUS menu appear "RF100".* **Battery** type can be setup in Alkaline, NiMH or Lithium.

<LED> menu

This menu can be entered by scrolling selector.

LED Led Light: 16 Led Mode: ModPeak	Power switch green LED brightness can be setup → **Led light** (from 0 to 16). **Led Mode** setting define when the LED on the power switch (see Fig. 3) have to become RED: - None: never, - ModPeak: when audio get close to saturation) - PTT: when the PTT button is pushed

<MIC> menu

This menu can be entered by scrolling selector.

MIC PTT: Disable	4 different **PTT** mode can be selected: Disable, Normal, Muting, No Data.

<NAME> menu

This menu can be entered by scrolling selector.
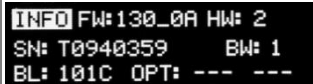
NAME Freq: 618.000 MHz Actor_01	In this menu it's possible to see the frequency set on the device and the name of the transmitter. It's possible to enter on this menu also pressing at the same time the CH/GAIN buttons (**B**+**C**)

<INFO> menu

This menu can be entered by scrolling selector.

INFO FW:130_0A HW: 2 SN: T0940359 BW: 1 BL: 101C OPT: --- ---	In this menu it's possible to see: - FW version - HW version - Serial number - Bandwidth - Bootloader version - Option

<IRDA> menu

This menu can be entered by scrolling selector.

IRDA IRDA Enabled	While there is this menu, the device can be connected to IRDA for setup or firmware upgrades. Note: if the IRDA interface is enabled and there's no communication for around 10 seconds, the IRDA interface is automatically turned off.

On power on the device, the IRDA interface is enabled for 14 seconds.

<LOCK> menu

This menu can be entered by scrolling selector.

LOCK Keep toggle pressed to enable RF & LOCK	Long pressing (2 sec.) selector button (**click**) it locks MTH400 in transmission mode. To unlock, long pressing (2 sec.) selector button again.

<BOOTLOAD> menu

This menu can be entered by turning on the transmitter while pushing **at the same time** the quick channel setup button <**CH**> or connecting the device via IRDA using the IR Programmer for FW update

BOOTLOAD	Device is forced in bootloader mode to allow **FIRMWARE UPDATE**.

The following table sums up which parameters can be set and the related range settings.

MENU	PARAMETER	MEANING	RANGE SETTINGS
TUNING	CH	Channel	0 ÷ 59
	GR	Group	0 ÷ 39 + SYNC GROUP
	Freq	Frequency	It depends on the MTH400 Model: 1 470-640 2 566-798 3 510-698
AUDIO	AF Gain AF Level	Gain of the audio signal	-40dB ÷ +40dB step of 1dB -54dBu ÷ +26dBu step of 1dBu
	Phase	Audio signal phase	0° or 180°
	HP	High Pass filter	Flat/60/80/120/170/250/400 Hz
	Noise R.	Noise reduction	ENR: Wisycom Extended-NR, noise optimized ENC: Wisycom Extended-NC, voice optimized
RF/BATTERY	RF Power	RF Power	10mW or 50mW or 100mW (depending on the power profile)
	Battery	Battery type	Alkaline, NiMH or Lithium
LED	Led Light	Power switch green brightness	0 ÷ 16
	Led Mode	It defines when the power switch led (see Fig. 3) has to become RED	None: never ModPeak: when audio get close to saturation PTT: when the PTT button is pushed
MIC	PTT Mode	It defines how and what information the transmitter has to send	**Disable**: when the PTT button is pushed, nothing happen. (the transmitter sends AF+Tone squelch) **Normal**: when the PTT button is pushed, the transmitter send a different RF signal. According to the receiver configuration the audio can be enabled/disable on LINE (and/or COM). **Muting**: the transmitter doesn't send the audio. The voice is cut, it doesn't enter to the microphone **No Data**: the transmitter sends neither tone squelch nor battery data.

# HOW TO USE WISYCOM TX MANAGER (V.1.1.5 OR ABOVE)

Wisycom TX Manager allows to read, modify and update the configuration of Wisycom transmitters. It is necessary to

- connected the programmer UPK300E/UPK*Mini* or the receiver MRK950/MRK960 to the PC thru **USB connection**
- run the Wisycom TX Manager
- enable the IRDA communication on the transmitter (see IRDA menu)

NOTE: Wisycom IR Programmer doesn't work whit MRK950/MRK960 if it is connected to the PC using an Ethernet cable.

The Wisycom IR Programmer's window is divided in 4 parts (see the image below):

❶ Interface and **Device** panel contains all the major information of the connected device

❷ Current Settings panel shows the current configuration. Thanks the PRESET panel, a previous saved configuration can be chosen and loaded like current setting.

❸ Tuning Frequencies panel allows to handle Groups, Channels and Frequencies

❹ Presets panel allows to read, change and save different configurations
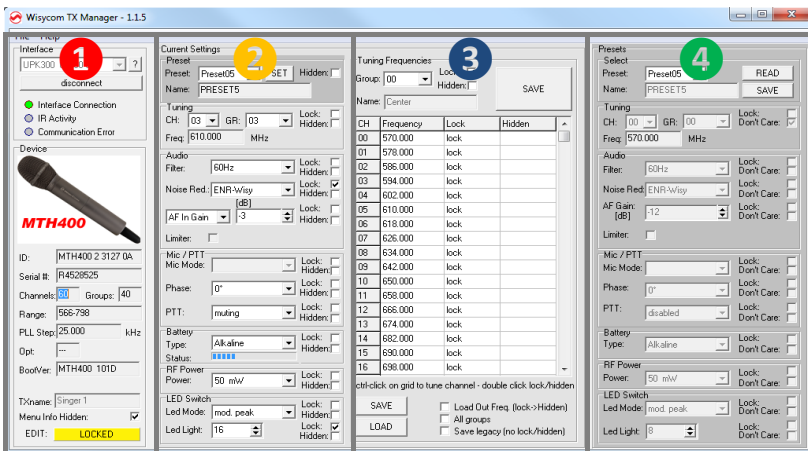
10 different configurations are available:

- FACTORY configuration is a locked configuration: no parameter can be changed.
- USER configuration is the only configuration that can be saved using the OLED display (see <PRESET> menu). Note: It is not possible to change the name of this configuration.
- Other 8 configurations where the user can change both the name and the values of all parameters.

INTERFACE AND DEVICE PANEL (❶)

At the beginning, the program checks which IR devices are detected and they appears on the **Interface** panel.

The user has to select the device and push <connect> button in order to open the communication with the IR device. A picture on the top in the Interface panel help the user in this selection showing the type of devices detected. During this process the "IR activity" led blinks to indicate that the program wait connection's answer from the IR device.

A successful connection is signaled with the "interface connection" green led, while a failed connection is signaled with the "communication error" led.

Once a supported device is found, the software automatically reads all the data related to the remote configuration, as well as the frequencies that are pre-programmed.

Firstly, in order to avoid unwanted operation, no parameters can be changes and the EDIT button, presents on the bottom of **Device** panel, is yellow and set to LOCKED state. Pushing the EDIT button, it becomes grey and sets to UNLOCKED state to indicate that the configurations can be modified.

In this panel it's possible to assign a name to the TX (not available for FW v.1.22.0F or previous). Under this parameter, there is a flag to hide the info menu on the TX (not available for FW v.1.22.0F or previous)

CURRENT SETTINGS PANEL (❷)

In the Current Settings panel the user can

- with Preset panel → load one of the 10 available configurations

- with other panels → modify all the configuration's parameters (the same that are changeable in the OLED display). Each parameter can be locked or hidden clicking the related lock/hidden button, so the set value cannot be changed next or cannot be visible on the OLED display.

ATTENTION: All the modifies applied to the Current Settings panel are instantaneous: they are

applied directly to the device and save in its memory but no saved in the preset configuration.

TUNING FREQUENCIES PANEL (❸)

With the Tuning Frequencies panel the user can select a frequencies group (0÷39) and for each one execute the following operations:

- modify the Group's Name
- lock and/or hidden the group
- for each channel (0 ÷59) of the selected group: change the frequency value and the related status (locked/hidden) (in the center grid frequency)

The SAVE button, at the top of the panel, save the changes of the group selected (name group, lock/hidden group).

To change a frequency value for a specific channel: double click on the grid frequency panel (row=channel's number), insert the new frequency value and press OK button.

To lock/hide a specific channel, double click on the grid frequency panel.

NOTE: keeping pressed the CTRL button on the keyboard and clicking the wanted channel/group shown on the frequencies grid, the tuning process is executed. It is equivalent to configure the Tuning in the Current Settings panel but it is easier. The device is re-tuned immediately, so be sure that the RF power is turned off while changing frequencies with other RF systems in use around you!

If the currently tuned channel is on the same group that is listed on the grid, the background color of

the related cell (channel) on the grid becomes yellow.

Using the LOAD/SAVE button, at the bottom of the panel, it is possible to **load/save** the frequencies for the selected group from/to a .wdf file. To save the frequencies of all the groups click to the related button above. The legacy option save the channels without the hidden/lock info.

PRESETS PANEL (④)

The Preset panel allows to manage all the 10s available configurations. For each configuration it is possible to set the name and all the parameters value except for FACTORY and USER configurations (see table below).

PRESETS:	NAME*	LOCK/DON'T CARE	PARAMETERS VALUE
FACTORY			
USER			√
OTHERS	√	√	√

√=change is allowed

* Be careful to write a meaningful name for the preset because the name will appear on the settings list of the device menu! Please, avoid empty names.

If a parameter is "locked", it cannot be modified by device menu (using OLED display), while if "don't care" propriety is active, when the user load the configuration, the parameter's value doesn't changed.

ATTENTION: Changes are applied only after a "save" action.

NOTE: *"a trick"* In case of the user have a locked parameter and he is in great need for modify it, he can save the configuration to USER configuration by OLED (see PRESET menu) and then load the USER configuration (in this way all the parameters have the lock propriety disable and the user can modify all the parameters).

FILE MENU

Using a file menu at the top left of the panel it is possible to **load/save all the configuration** values of the device to/from a .wcf file (Wisycom Configuration File).

Save a .wcf file
With an infrared device correctly connected, select File->Save User Configuration and select the destination file.

Load a .wcf file
To load a user configuration select File->Load User Configuration and select a previously saved data file; a form will be shown, where it's possible to select which data has to be restored and which skipped. This allow the user to load a particular configuration while keeping other data.

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 *Variants* on the next page)
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	▪ 10mW (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!)
Spurious emissions	< 2 nW
Modulation	wideband FM with pre-emphasis
Nominal deviation	±40 kHz (Peak deviation = ±56 kHz)
Telemetry feature	MTH400 transmits also a digitally modulated sub-carrier, suitable for: ▪ *tone-squelch operating* ▪ *remote battery monitoring* ▪ *optional PTT (push to talk) operation*
AF input connection	Directly interchangeable microphone-heads
AF input level	60 dB adjustable range from -54 to +6 dBu at peak deviation (1 kHz), adjustable in 1 dB steps
Max. input level	+26 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-emphasis
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 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: *GREEN* on/off ▪ Modulation peek (if activated): *RED* ▪ Battery lifetime status: *GREEN* - steady (> 25%) - slowly blinking (< 25%) - quickly blinking (<12%) ▪ Ptt status: *RED* if active
Display	High contrast OLED (Organic light-emitting diode) display (96 x 36 pixels) 8 step battery lifetime indication: 7 bars (100%-87%-75%-63-50%-38%-25%) and "empty bar" quickly blinking (12% remaining)
Power supply	2 AA size cell (Alkaline, rechargeable NiMH or Lithium)
MTH400 Battery life (2AA alkaline)	▪ approx. 14 hours @ 10mW continuous working ▪ approx. 10 hours @ 50mW continuous working ▪ approx. 7 hours @ 100mW continuous working
Dimensions	⇒ body max. diameter 33 mm (without microphone-head) ⇒ total length 183 mm (without microphone-head)
Weight	Approx. 300g, including battery and MCM3xx (condenser) mic-head (approx. 260g batteries excluded)
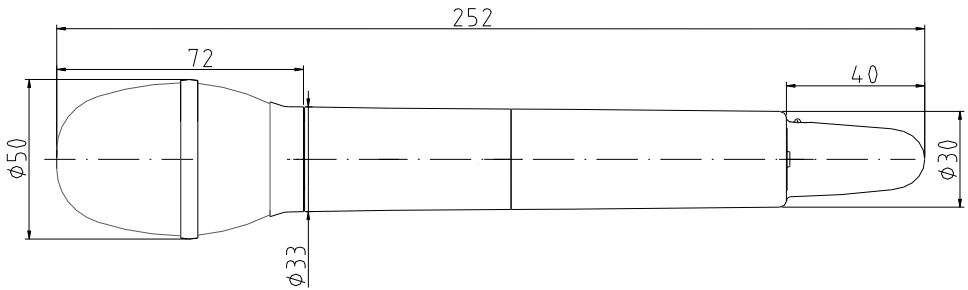
Note: unit is mm

POWER PROFILE & COUNTRY
FREQUENCY RANGE:

EU max power 50mW (Europe)

0W1 / **EUX** max power 100mW (Europe)

US max power 50mW, limited to 698MHz (USA & Canada)

JP max power 10mW, limited to 714MHz (Japan)

NZ max power 100mW, limited to the range 502÷698MHz (New Zealand)

VARIANTS:

▪ **COLOR**

PV body color titanium gray (ceramic coating)

BL body color black (powder coating)

▪ **FREQUENCY RANGE**

B1 470-640 MHz

B2 566-798 MHz

B3 510-698 MHz

For the commercial code, see in the Variants area of the Products on our website

Compliance

Model	In Compliance with	Max Power	Country
MTH400 **MTH400-EU**	**EN 301 489-1/-9** **EN 600065** **EN 300 422-1/-2**	50mW	Europe C€
MTH400-0W1 **MTH400-EUX**	**EN 301 489-1/-9** **EN 600065** **EN 300 422-1/-2** **EN 300 454-1/-2**	100mW*	Europe C€
MTH400-US	FC PART 74 FCC-ID: **POUMTH400** **RSS-123, RSS-102** IC: **11967A-MTH400** Limited to 698MHz	50mW	USA, Canada
MTH400-JP	⊖ R **202-LSC058** Limited to 714 MHz MIC marking identifier can be found in the battery compartment.	10mW	Japan
MTH400-NZ	**EN 300 422-1/-2** **EN 300 454-1/-2** Limited to the range 502÷698MHz	100mW	New Zealand

* MTH400-0W1/MTH400-EUX is not an SRD device, it requires specific authorization by your local frequency authority!

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 ETSI 300 422.

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

MANUFACTURER DECLARATIONS

In compliance with the following requirements

- RoHS Directive (2002/95/EC)

- WEEE Directive (2002/96/EC)
  Please dispose of the diversity transmitter at the end of its operational lifetime by taking it to your local collection point or recycling center for such equipment

- Battery Directive (2006/66/EC)
  The supplier batteries or rechargeable batteries can be recycled. Please dispose of them as special waste or return them to your specialist dealer. In order to protect the environment, only dispose of exhausted batteries.

FCC Conformity

This device complies with Part 74 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operations.

Changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC ID can be found near the battery compartment (unscrew & slide down the cover).

FCC ID: POUMTH400

Industry Canada Conformity

EN

This device complies with Industry Canada RSS-123. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

FR

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio RSS-123. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

ITALY ONLY

Obblighi di informazione agli utilizzatori
ai sensi dell'art. 13 del Decreto Legislativo 25 luglio 2005, n. 151 "Attuazione delle Direttive 2002/95/CE, 2002/96/CE e 2003/108/CE, relative alla riduzione dell'uso di sostanze pericolose nelle apparecchiature elettriche ed elettroniche, nonché allo smaltimento dei rifiuti"

Smaltimento di apparecchiature elettriche ed elettroniche di tipo professionale

Il simbolo del cassonetto barrato riportato sull'apparecchiatura o sulla sua confezione indica che il prodotto alla fine della propria vita utile deve essere raccolto separatamente dagli altri rifiuti.
La raccolta differenziata della presente apparecchiatura giunta a fine vita è organizzata e gestita dal produttore. L'utente che vorrà disfarsi della presente apparecchiatura dovrà quindi contattare il produttore e seguire il sistema che questo ha adottato per consentire la raccolta separata dell'apparecchiatura giunta a fine vita.
L'adeguata raccolta differenziata per l'avvio successivo dell'apparecchiatura dismessa al riciclaggio, al trattamento e allo smaltimento ambientalmente compatibile contribuisce ad evitare possibili effetti negativi sull'ambiente e sulla salute e favorisce il reimpiego e/o riciclo dei materiali di cui è composta l'apparecchiatura.
Lo smaltimento abusivo del prodotto da parte del detentore comporta l'applicazione delle sanzioni amministrative previste dalla normativa vigente.

Smaltimento batterie usate

Questo prodotto può contenere batterie. Questo simbolo apposto sulle batterie significa che non possono essere smaltite insieme a normali rifiuti domestici, bensì devono essere depositate negli appositi punti di raccolta delle batterie.

Iscrizione al Registro A.E.E. n. IT09100000006319

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DECLARATION OF CONFORMITY

DICHIARAZIONE DI CONFORMITA'
DECLARATION OF CONFORMITY

Il sottoscritto, rappresentante il seguente costruttore
The undersigned, representative of the following manufacturer

WISYCOM S.r.l.
via Spin, 156 - 36060 Romano d'Ezzelino (VI) - Italy

DICHIARA che l'apparecchiatura descritta in appresso:
DECLARES that the product:

Descrizione	Handheld trasmitter
Description	
Modello	Mth400
Model	

è conforme alle disposizioni legislative che traspongono le seguenti direttive:
- **direttiva 2004/108 CE (Direttiva EMC)**
- **direttiva 2006/95 CE (Direttiva Bassa Tensione)**
- **direttiva 99/5 CEE (Direttiva Apparecchiature Radio)**

is in accordance with the following Directives:
- *2004/108 EC Directive (EMC Directive)*
- *2006/95 EC Directive (Low Voltage Directive)*
- *99/5 EEC (Radio Equipment Directive)*

e che sono state applicate tutte le norme e/o specifiche tecniche di seguito indicate
and that all the following standards have been applied

EN 60065:2002 + A1:2006 + A11:2008 + A2:2010 + A12:2011

EN 301 489-1 V1.9.2

EN 301 489-9 V1.4.1

EN 300 422-2 V1.3.1

Luogo	Romano D'Ezzelino
Place	
Data	25 July 2012
Date	
Firma	Franco Maestrelli
Sign	WISYCOM s.r.l.
(nome e funzione)	Franco Maestrelli
(name and title)	Amministratore Unico

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WisyCom®

Wireless System Communications