

## CTW-10 Clip-on Tuner

### Quick start guide

This document contains important information on the safe use of the product. Read and follow the safety instructions and all other instructions. Keep the document for future reference. If you pass the product on to others, please include this document.

Contents are subject to change. Please refer to the latest version of the documentation, which is available for download at [www.thomann.de](http://www.thomann.de).

### Safety instructions

#### Intended use

This device is used for the tuning of musical instruments. Any other use or use under other operating conditions is considered to be improper and may result in personal injury or property damage. No liability will be assumed for damage resulting from improper use.

This device may be used only by persons with sufficient physical, sensory, and intellectual abilities and the necessary knowledge and experience. Other persons may use this device only if they are supervised or instructed by a person who is responsible for their safety.

#### Risk of injury and choking hazard for children!



Children can suffocate on packaging material and small parts. Children can injure themselves when handling the device. Never allow children to play with the packaging material and the device. Always store packaging material out of the reach of babies and small children. Always dispose of packaging material properly when it is not in use. Never allow children to use the device without supervision. Keep small parts away from children and make sure that the device does not shed any small parts (such as knobs) that children could play with.

#### Risk of fire due to incorrect polarity!



Incorrectly inserted batteries may cause fires and destroy the device and the batteries. Observe the markings on the batteries and on the device. Ensure that proper polarity is observed when inserting batteries.

#### Possible damage due to leaking batteries!



Batteries can leak and cause permanent damage to the device. Remove the batteries from the device if it is not going to be used for an extended period of time.

#### Interference with neighbouring electrical receivers due to electromagnetic field!



The device emits an electromagnetic field during operation. Using the device near receiver devices (e.g. radios or TV sets) may cause interference. If the device interferes with neighbouring receivers during operation, increase the distance between the device and the receivers with interference.

#### Damage to the device if operated in unsuitable ambient conditions!



The device can be damaged if it is operated in unsuitable ambient conditions. Only operate the device indoors within the ambient conditions specified in the "Technical specifications". Avoid operating it in environments with direct sunlight, heavy dirt and strong vibrations. Avoid operating it in environments with strong temperature fluctuations. If temperature fluctuations cannot be avoided (for example after transport in low outside temperatures), do not switch on the device immediately. Never subject the device to liquids or moisture. Never move the device to another location while it is in operation. In environments with increased dirt levels (for example due to dust, smoke, nicotine or mist): Have the device cleaned by qualified specialists at regular intervals to prevent damage due to overheating and other malfunctions.

#### General handling

- To prevent damage, never exert force while operating the device.
- Never immerse the device in water. Wipe only with a clean and dry cloth. Do not use liquid cleaners such as benzene, thinners or flammable cleaning agents

#### Keep foreign substances away from the device!

Keep the device away containers with liquid. Should liquid enter the device, this could lead to its destruction or fire. Ensure that no metallic parts enter the device.

### Features

- Chromatic clip-on tuner for wind instruments
- Tuning via vibration sensor
- Large illuminated display
- Two-colour display for displaying the correct tuning

- Calibration 440 - 449 Hz
- Can be rotated 360 degrees
- Battery included (CR2032)

### Inserting the battery

#### Risk of fire due to incorrect polarity!



Incorrectly inserted batteries may cause fires and destroy the device and the batteries. Observe the markings on the batteries and on the device. Ensure that proper polarity is observed when inserting batteries.

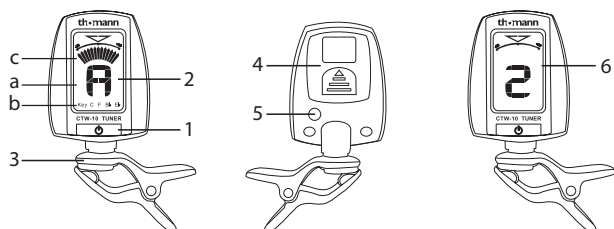
#### Possible damage due to leaking batteries!



Batteries can leak and cause permanent damage to the device. Remove the batteries from the device if it is not going to be used for an extended period of time.

1. Press the unlocking button on the back of the device.
2. Press on the battery compartment cover and slide it open as shown on the back of the device.
3. Insert a new CR2032 battery. Ensure that proper polarity is observed when inserting battery. The battery life depends on the operating conditions.
4. If the device doesn't work as described in this manual and if switching off and on doesn't solve the problem, remove the battery and reinsert it again to solve the problem.

### Connections and controls






- 1 Main switch. Turns the device on and off. "Tuning" switch
- 2 Display  
a - Note name  
b - Key  
c - Measuring range
- 3 Clip
- 4 Battery compartment
- 5 Unlocking button
- 6 Calibration display (0 = 440 Hz - 9 = 449 Hz)

# th•mann

## CTW-10 Clip-on Tuner

### Operation

1. Connect the device to your instrument via the clip.
2. Hold down  for 2 seconds to switch the device on or off.
3. Select a key for tuning. To do so, repeatedly press  to select "C", "F", "Bb" or "Eb" as the key for tuning.
4. Within 3 seconds, press  again with an interval of  $< 1 \text{ s}$  8 x, in order to adjust the required reference note (0 = 440 Hz - 9 = 449 Hz).
5. When you play a single note on your instrument, the note name is displayed. The backlight changes and the measuring range is displayed.
  - ⇒ If the backlight turns green and the measuring display is in the centre, the note is tuned correctly.
  - ⇒ If the backlight turns white and the indicator points left, the note is tuned too low.
  - ⇒ If the backlight turns white and the indicator points right, the note is tuned too high.
6. If the device is unable to detect a signal for three minutes after it has been switched on, it switches off automatically.

### Technical specifications

Tuning	C, F, Bb, Eb	Dimensions (W × H × D)	36 mm × 46 mm × 14 mm	
Scope	A0 (27.5 Hz) - C8 (4,186.00 Hz)	Weight	24 g	
Tuning mode	Clip (frequency measurement via vibration)	Ambient conditions	Temperature range	0 °C...40 °C
Measuring accuracy	± 0.5 hundredths		Relative humidity	20%...80% (non-condensing)
Power supply	Lithium-ion button cell, 3 V, CR2032			



Environmentally friendly materials have been chosen for the packaging. These materials can be sent for normal recycling. Ensure that plastic bags, packaging, etc. are disposed of in the proper manner. Do not dispose of these materials with your normal household waste, but make sure that they are collected for recycling. Please follow the instructions and markings on the packaging.



Batteries must not be thrown away or burnt, but must instead be disposed of in line with the local regulations on the disposal of hazardous waste. Use the available collection sites. Only dispose of lithium batteries when they are empty. Remove lithium batteries from the device before disposal if this is possible without destroying it. Protect used lithium batteries against short circuit, for example by taping the poles. Dispose the built-in lithium batteries together with the device. Check for an appropriate collection facility. Dispose of the batteries and rechargeable batteries at the appropriate collection points or through your local waste facility.



This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) as amended.

Do not dispose of your old device with your normal household waste; instead, deliver it for controlled disposal by an approved waste disposal firm or through your local waste facility. If in doubt, consult your local waste management facility. You can also return the device to a retailer if they offer to take the device back for free or if they are legally obliged to do so. When disposing of the device, comply with the rules and regulations that apply in your country. You can also return your old device to Thomann GmbH at no charge. Check the current conditions on [www.thomann.de](http://www.thomann.de).

Proper disposal protects the environment as well as the health of your fellow human beings. This is because the proper handling of old devices negates the potential negative effects of hazardous substances, and because it conserves resources by recycling them.

Also note that waste avoidance is a valuable contribution to environmental protection. Repairing a device or passing it on to another user is an ecologically valuable alternative to disposal.

If your old device contains personal data, delete those data before disposing of it.



Observe the disposal note regarding documentation in France.