



User Manual

GU 192 V3

GNSS Synchronized Clock Movement



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Regulations and Certification

The device fulfils the requirements of the following standards:

This product was developed and produced with the following EU directives:

EMC :	Electromagnetic compatibility directive 2014/30/EU
LVD :	Low voltage directive 2014/35/EU
RED :	Radio equipment directive 2014/53/EU
RoHS II :	Restriction of the use of certain hazardous substances directive 2011/65/EU
WEEE :	Waste electrical and electronic equipment directive 2012/19/EU
REACH :	Chemical substance directive ES 1907/2006

See Conformity for the declaration of conformity of this specific product. This product may offer a CB test certificate on request.



Important Notes

1. Please read and follow the safety information in this document before operating the product. We cannot guarantee that no accidents or damage will occur to improper use of this product. Please use this product with care and operate at your own risk.
2. We are not liable for any direct or indirect damage caused by the use of this document or the said product.
3. This product must be connected and installed by qualified electrician who is familiar with the relevant regulations (e.g. VDE).
4. The information in this document is subject to change without notice. The latest version of this document is available for download at <https://www.mobatime.com/products/> .
5. The product firmware is continuously being optimized and supplemented with new options. The latest firmware is available for download at <https://www.mobatime.com/products/> .
6. This User Manual has been composed with the utmost care to explain all the details to ensure a safe and stable operation of this product. Nevertheless, if question arise or error appear, feel free to contact support.
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Table of Contents

1.	Safety	5
1.1.	Instructions and Symbols	5
1.2.	General	6
1.3.	Installation	6
1.4.	Operation	7
1.5.	Maintenance and Cleaning	7
1.6.	Disposing	8
1.7.	Warranty	8
2.	Introduction	9
2.1.	Device Variants	9
2.2.	Scope of delivery	9
2.3.	Getting Started	10
3.	Mechanical Mounting	13
3.1.	Dimensions	13
3.2.	Movement Mounting	13
4.	Installation	14
4.1.	Mounting of hands	14
4.2.	Checking of the hand position	14
4.3.	Configuration / Settings	14
4.4.	Positioning of the magnet antenna	14
4.5.	Mounting of the power supply	15
4.6.	Reception check	15
5.	Button and LED	16
5.1.	Button	16
5.2.	LED	16
6.	Settings	17
6.1.	Serial Connection Tool	17
6.2.	Commands	17
6.3.	GNSS	18
6.4.	System	18
7.	Technical Data	20
8.	Accessories	21
9.	Time Zone Table	22
9.1.	Africa	22
9.2.	America	22
9.3.	Antarctica	23

9.4. Asia 23

9.5. Atlantic 24

9.6. Australia 24

9.7. Europe 24

9.8. Indian 25

9.9. Pacific 25

9.10. Generic Zones 25

1 Safety



Read the safety instructions carefully and follow all the instructions. This ensures safe and reliable operation of this device.

1.1. Instructions and Symbols

Symbols used throughout this document and their meaning are as follows:



A note or important information.



Answer to a possible question. Contact information.



Keep away from children and people with limited physical, sensory, or mental capacities.



Action needs to be taken.



Connect device to earth ground.



More information included in the manual.



Disconnect mains power before doing anything.



An example or a hint.



Additional references or information.



Attention of electrical shocks.



Surface may be hot.



Item is flammable.



A warning, be cautious.



Recyclable materials.



Do not put in trash.

1.2. General



For safety and licensing reasons, unauthorized modifications and/or changes to the product is prohibited. Maintenance, adjustments or repairs may only be carried out by the factory (copyright holder).



This product is not a toy; it does not belong in the hands of children. Mount or place the product so that it cannot be reached by children. Children may try to insert objects into the product. The product will not only be damaged, but there is also a risk of injury, as well as danger to life through electric shock.



Never open the housing of this product, for it poses mortal danger from electric shock or may even cause a fire.

Keep packaging such as plastic films away from children. There is the risk of suffocation of misused.



Use caution with the product, knocks, blows, or even falls from a low height can damage it.



In industrial facilities, the accident prevention regulations of the trade associations for electrical systems and equipment must be observed.

Do not use the product if it is damaged. It can be assumed that safe operation is no longer possible, if:

- The product has visible damage.
- The product is not working properly (thick smoke or a burning smell, audible crackling noise, discoloration of the product or surrounding areas).
- The product was stored under adverse conditions.
- Tough conditions during transport.



Improper handling of this product operated on the mains voltage can cause mortal danger from electric shock!



Interconnection or combining equipment bearing a CE label does not inevitably result in a system that conforms with the safety regulations. Integrators will have to reassess the new product's compliance according to the locally valid directives. See section Conformity for more information on certifications of this product.

1.3. Installation

This product must be connected and installed by a qualified electrician who is familiar with the relevant regulations (e.g. VDE).



Never plug the product into voltage / power supply immediately after it has been moved from cold into warm environment (e.g. during / after transport / unboxing). The resultant condensed water may damage the product or may cause electric shock.



Allow the product reach the ambient temperature. Wait until the condensation has evaporated, this can take a few hours. Only then can the product be connected to the voltage / current supply and put into operation.



This product may have screw terminals with open electrical contacts. It is essential to ensure that the connection is made only when no voltage / current is applied. Secure the power supply to prevent accidental reconnection. Verify the absence of voltage using an appropriate meter.



The power supply line must be protected with a residual current circuit breaker (RCCB) with a trip current ≤ 30 mA.



Always connect earth ground to the device at the indicated protective earth terminal (PE or earth symbol indication).



Always unplug a power plug from the socket only at the intended gripping surface, pull the power plug not the cord from a power outlet. Wires may rip out and pose danger to life through electric shock.



Maintain sufficient cooling of the product according to its specifications.

1.4. Operation

Use the product in the specified environment. Use outside of the specifications can damage the product and/or stop any operation.

The product may not be exposed to extreme temperatures, direct sunlight or strong vibrations. Protect the product from moisture, dust and dirt.



Operation in environments with excessive dust, flammable gases, vapours or solvents is not permitted. It may cause explosion or fire.



Depending on the cooling type, the product housing may reach temperatures above 60 °C, which can burn the skin.

- Do not overload the product. Note the input / output voltage and currents as well as output powers indicated on the product.
- Depending on the input currents and input voltages, suitable connecting cables with appropriate cable diameter must be used. Only use the plugs and connectors supplied in the original packaging with the product.

1.5. Maintenance and Cleaning

- If the product and/or the connecting cable is damaged, do not touch it: there is mortal danger from electric shock! First, turn off the power supply to all poles of the product (turn off associated circuit breaker or remove the fuse, then turn off GFCI). Verify the absence of voltage using an appropriate meter.
- For the end consumer, the product is maintenance-free. Leave any maintenance to an expert. Repairs may only be done by the factory itself (copyright holder).
- For external cleaning one can use a clean, soft, dry cloth. Dust can be easily removed with a clean, soft brush and a vacuum cleaner.



Unplug all poles of the product from the operating voltage before cleaning.

- Do not use aggressive chemicals or abrasive cleaners, as this may cause discoloration or even material changes.
- This product is equipped with fuses for protection against high voltage and high currents. Burned fuses may only be replaced by the factory itself (copyright owner).



Never bridge a fuse, it is a fire hazard and can cause a fatal electric shock.

1.6. Disposing



At the end of its lifecycle, do not dispose of this device in the regular household rubbish. Return it to the supplier who will dispose of it correctly.



The user is lawfully obligated to return unusable batteries. **Disposal of used batteries through household waste is prohibited!** Batteries which contain dangerous substances are labelled with a picture of crossed out trash bin. The symbol means that this product may not be disposed through household waste.

Unusable batteries can be returned free of charge at appropriate collection points of your waste disposal company or at shops that sell batteries. By doing so, you fulfil your legal responsibilities and help protect the environment.



This product was packed and stuffed with proper materials to protect it during transportation. Packaging materials can be recycled and should be disposed environmentally friendly.

1.7. Warranty

The device is intended for a normal operational environment according to the corresponding norm.

The following circumstances are excluded from the warranty:

- Inappropriate handling or interventions.
- Chemical influences.
- Mechanical defects.
- External environmental influences (natural catastrophes, etc.)



Repairs during and after warranty period are assured by the manufacturer.

2 Introduction

The GU 192 V3 is a GNSS synchronized clock movement for use in self-setting indoor and outdoor clocks for dial diameter up to 80 cm.

Two variants with different shaft lengths are available. For clocks without illumination, GU 192 V3 is used, for illuminated clocks the GU 192t V3 (t = long shaft).

2.1. Device Variants

This instruction manual is for the GNSS clock movements GU 192 V3 and GU 192t V3. Below, both models will be referred to as GU 192 for better readability. With the exception of the shaft length, this term always refers to both models within the manual (GU 192 V3 and GU 192t V3). Additionally, both movements are sold as kit containing additional mounting material.

- AN 144302: GU 192 V3
- AN 144303: GU 192t V3
- AN 144651: GU 192 V3 Kit
- AN 144653: GU 192t V3 Kit

2.1.1. Deprecated Device Variants

Mechanically, the GU 192 V3 devices are identical to the previous generations. Mounting of dials and hands did not change. Due to evolving GNSS technology, the receivers and antennas of previous generations are not compatible with the current V3 device variants. Its is not possible to cascade the new devices with old ones. This affects following devices:

- AN 120719: GU 192 V2
- AN 120720: GU 192t V2
- AN 201415: GU 192 V1
- AN 201418: GU 192t V1



Cascading will be supported with a new QU 192 V3, this will be available shortly.

2.2. Scope of delivery

Please check your delivery for completeness and notify your supplier within 14 days upon receipt of the shipment, if it is incomplete.

The package you received contains:

- GU 192(t) V3
- GNSS Magnet Antenna

Kits additionally include:

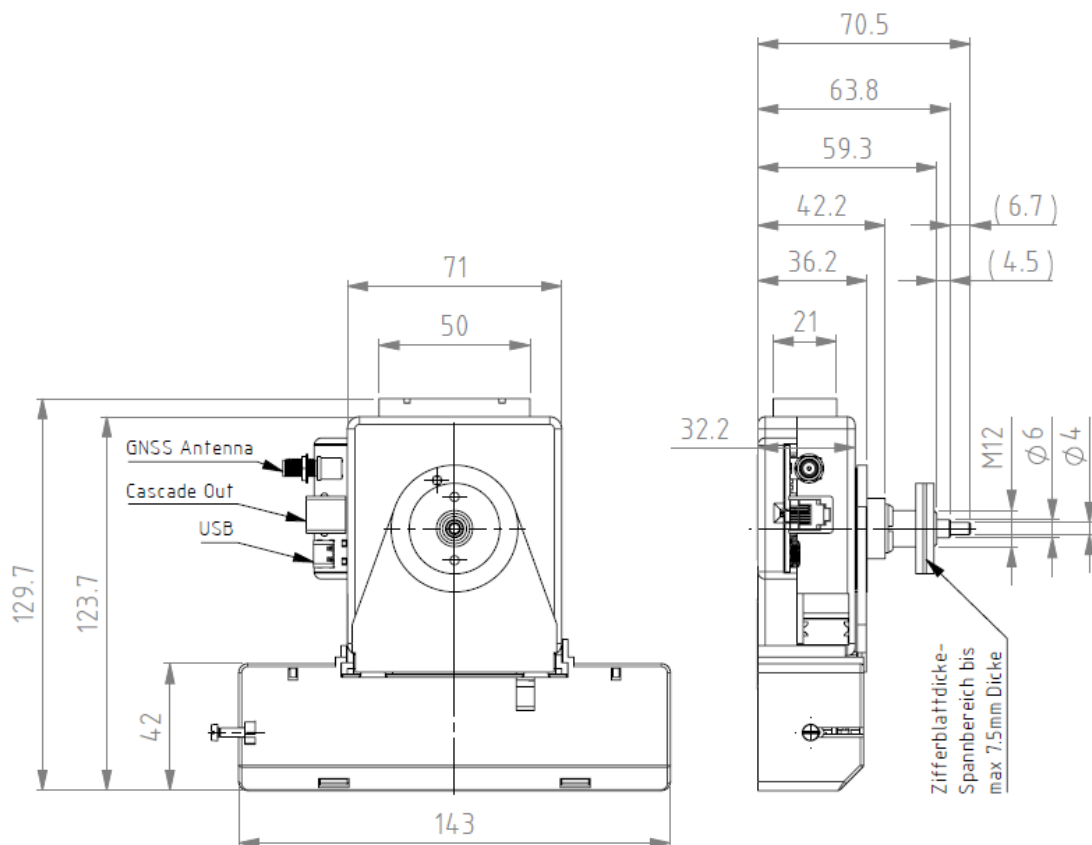
- Hand-bushing for hour-hand
- Hand-bushing for minute-hand

2.3. Getting Started

1. Mount the movement into the clock onto the dial
2. Mount the minute and hour hands
3. Install the power supply
4. Configure the time zone
5. Position and connect the magnet antenna
6. Wait for reception and for the clock to run to time

2.3.1. Mounting

Mount the GU 192 V3 movement onto the clock dial using the central nuts on the movement axis.



2.3.2. Mount Hands

The axles for the hour and minute hands are set to the reference position (12:00) at the factory. Carefully slide the hands onto the axles and tighten them. There must be sufficient space between the hands.



After assembly, always check the 12:00 position.

2.3.3. Power Supply

Connect the power supply by inserting the 2x Alkaline D Size Batteries (LR20). The movement will start running to the 12 o'clock reference position. It won't move if it already is on 12h position.



Lithium Batteries and Mains Power Supply will be available shortly.

2.3.4. Check Hand Position

After powering up the movement searches 12h position. When it stops moving (it might not move at all in case it already is on 12h position) check the alignment of the hands. If the hands are misaligned, remove power supply, loosen the screws holding the hands and adjust the hand position carefully.



We advise to check hand position before connecting the GNSS antenna. Without the antenna, the movement will stay at its 12h position,

2.3.5. Configuration

By default, the time zone is set to `Zurich`. If the movement is operated in any central European zone, this step may be skipped.

Connect the movement to a computer using USB-C. Connect to the movement using the VCOM (Virtual COM Port). Any Serial Terminal software can be used, for example Putty or Chrome Serial Terminal. Please note that Chrome Serial Terminal requires a Chrome based browser, Firefox, Safari or similar won't work.

Connect the movement using USB and open the corresponding COM Port. Settings like Baudrate may be skipped as VCOM over USB ignores them. The movement now provides a Command Line Interface (CLI) to change settings.

To change time zone enter `clock set timeZone London`, confirm the command by typing Enter.



Timezones are set according to official IANA names. Enter the city name without its continental prefix, for example `London` instead of `Europe/London`. Also note the official IANA time zone spelling. IANA names use underscore (`_`) instead of whitespaces. The time zone for New York is `New_York`. Further IANA replaces any special character, Zürich is entered as `Zurich`.

Check the time zone table section of the user manual for a complete list of supported time zones.

Other settings may be changed as well (optional):

- `gnss set syncIntervall 12` configures the movement to turn GNSS reception on every 12h
- `gnss set syncTime 06:15` configures the movement to start GNSS exactly at 06:15
- `gnss set syncTimeout 240` configures the movement to run to 12h and stop if it can not receive a GNSS signal for 240 hours
- `gnss set fixDuration 60` configures the movement to leave GNSS on for 60 seconds after receiving proper signal
- `gnss set fixTimeout 120` configures the movement to turn GNSS off after 120 seconds if no signal is found

The movement can be controlled using various commands

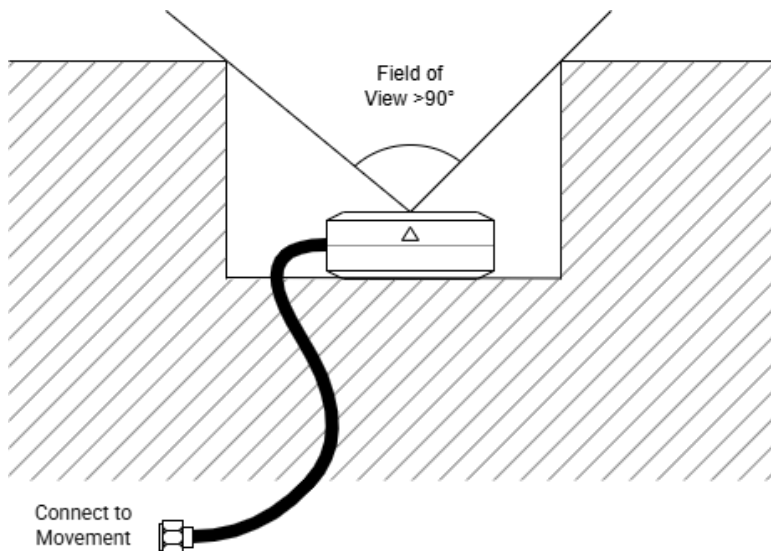
- `clock set mode 12h` Command the movement to go to 12h position and stay there
- `clock set mode run` Command the movement to go to time (if the movement is synchronized)
- `gnss sync now` Command the movement to start GNSS reception now



You may type `gnss help` or `clock help` to get information about available commands.

2.3.6. Position and Connect GNSS Antenna

Place the GNSS Antenna with the arrow pointing up. The antenna must have unobstructed view towards the sky with an unobstructed field of view of at least 90°. Use the magnetic mount or the adhesive pad to hold the antenna in place. Connect the antenna to the movement using the SMA connector. If the LED is not already blinking, press the button for 1s to start GNSS reception. The LED will blink once a second while looking for reception. As soon as time has been received, the movement will run to time.



If the movement does not go to time after 10 minutes, check following issues:

- Make sure the movement is not manually set to 12h. Send `clock set mode run` over USB
- Make sure antenna is properly connected
- Improve antenna placement, GNSS reception typically needs unobstructed view of the sky. Shading from buildings should be avoided as much as possible.



Good antenna placement and therefore good GNSS reception increases battery lifetime, as less time and power is required to synchronize the movement.

3 Mechanical Mounting

3.1. Dimensions

tbd

3.2. Movement Mounting

The dial must be sufficiently stable. The fixing hole must have a diameter of 12,3 mm. The movement must be fixed in vertical position. See the picture to the right for the position of mounting parts. The disc nut (7*) M12 x 1 has to be tightened with a special wrench tool (Art. No. 36761 @todo new number) and a torque wrench with a torque of 4.5 Nm +/- 0.2 Nm.

@todo add image

Caution: Using the movement 192t, the ring nut (5) and distance ring (6) must not be removed.

Caution: With the movement with short shaft (192) the rubber washer (3) must in no case touch the clock case. In case of damage of the clock case the movement can be blocked.

4 Installation

The following procedure is recommended at the starting-up:

1. Mounting of the hands
2. Selection of time zone
3. Positioning of the magnet antenna
4. Mounting of the power supply
5. Checking of the reception

4.1. Mounting of hands

The shafts of the hour and minute hands are positioned on the reference position (12 o'clock) at the factory. The hands shall be carefully fixed and tightened on the shafts. Enough space must be available between the hands.

The position 12 o'clock must in any case be checked after the mounting

4.2. Checking of the hand position

- Install the power supply.
- The clock runs to 12 o'clock position
- Is the position of hands at 12h position?
- If the hand position is wrong, carefully loosen the hands, adjust and tighten.
- Check the 12 o'clock position again (initiating by a short interruption of the power supply).
- The radio reception will thus be activated. With sufficient reception the clock runs from the 12 o'clock position to the correct time after few minutes.

After the correct setting the hands must not be turned by hand any more!

4.3. Configuration / Settings

Configuration can be made using USB. Connect the movement to a phone or a computer using an USB-C cable. Connect to the COM port to change settings. Type "help" to see available commands.

By default, Timezone is set to Zürich, which is Central European Time (CET). To change it use the command

`clock set timeZone <name>` . Most official IANA time zones are valid, they are entered without the continent region prefix (eg enter `Berlin` instead of `Europe/Berlin`)

4.4. Positioning of the magnet antenna

The magnet antenna must be connected to the GNSS antenna connector and installed outdoors (shading from buildings should be avoided). The GPS receiver shall be connected to the input of the GU 193(t) V2.

@todo add image

4.5. Mounting of the power supply

To open the battery box lift the cover with a screwdriver, which is placed in the foreseen space, and press lightly downwards (see picture).

Possible power supplies:

1. 1 Lithium battery 3.6V 35 Ah (Art. 106895)
2. 2 Alkaline DD batteries 1.5V @todo SAP Nummer
3. Ext. power supply 230VAC NU 192 V3 @todo SAP Nummer

Please pay attention to the polarity of the power supply! As soon as the movement is under power, the hands will start moving.

The electric contact can be improved through a slight tightening of the synthetic screw. The lithium battery and the external power supply shall be connected by using the corresponding connection wires.

4.6. Reception check

During the reception procedure a side-positioned LED will emit a flash pattern, which indicates the state.

The following possibilities to reactivate the reception procedure exist:

- Interrupt the power supply
- A short pressure on the operation button
- Wait until the next scheduled synchronization

5 Button and LED

On the back side of the movement a button and an LED allow for basic interaction.

5.1. Button

The following functions can be released through the operation key (see picture):

1. If the key remains pressed between 1 and 5 seconds, GNSS synchronization is turned on. The LED flashes during this time.
2. If the key remains pressed for more than > 5 seconds, the clock runs to the 12 o'clock position and will remain there for 10 minutes. During this time it is possible to charge a time offset on the movement as per the user's requirements. After the end of the 10 minutes or after that the key has been briefly pressed, the clock runs to the correct time again (under condition that the clock is synchronized).

Should the clock has to be dismantled or the hands adjusted again, it is recommended to remove the power supply, after that the hands have stopped on 12 o'clock. It will thus be avoided, that the hands suddenly will start running again after 10 minutes.

5.2. LED

On the side of the movement, near the connectors an LED shows the status of the Movement. If GNSS reception is on, this LED flashes once a second. If the battery is empty, it flashes fast 10 times every time the clock hand move (every full minute).

6 Settings

The GU 192 V3 can be controlled though a command line Interface (CLI) using the USB connection. When connected, type `help` and press enter to see all available command. They are grouped into following groups:

- `clock`
- `gnss`
- `system`

6.1. Serial Connection Tool

Any tool that can connect to a serial COM port can be used to connect to the movement. This works on phones and computers on all major operating systems.

Examples:

- Putty (Windows and Linux)
- Webserial Terminal von Google Chrome Labs , made for chrome based browsers.
- Screen (macOS and Linux)

Note: Since the connection is done via USB, Baudrate and similar settings don't matter. The only relevant setting is the number/name of the port. The CLI accepts all types of line endings (`\n` , `\r` , `\r\n`)

6.2. Commands

6.2.1. Clock

Command	Sample Response	Note
<code>clock set get time <hh:mm:ss></code>	<code>time 12:23:56</code>	
<code>clock set get timeOfDay <seconds></code>	<code>timeOfDay 12345</code>	in seconds since midnight
<code>clock set get date <dd:mm:yyyy></code>	<code>clock set date 24:03:2026</code>	
<code>clock set get timeZone <zoneName></code>	<code>timeZone Berlin</code>	without continent prefix, default: Zurich
<code>clock get swTrim</code>	<code>swTrim 1234</code>	Unit: ticks/hour
<code>clock get set mode <12h run></code>	<code>mode 12h</code>	Possible responses: 12h, run, searching, on time

SWTrim is the correction value in ticks per hour for the internal oscillator, derived from GNSS data.

Time zones are entered using names according to the IANA Timezone Database, but without the continent. For example, `Europe/Zurich` is entered as `Zurich` . Note the ASCII spelling without `ü` .

6.3. GNSS

Command	Sample Response	Standard	Note
<code>gnss set get syncTime <hh:mm></code>	<code>syncTime 02:15</code>	03:00	
<code>gnss set get syncIntervall <hours></code>	<code>syncIntervall 8</code>	24	Min 1h, Max 168h (7 days)
<code>gnss set get syncTimeout <hours></code>	<code>syncTimeout 96</code>	168	Min 3h, Max 720h (30 days)
<code>gnss set get fixDuration <seconds></code>	<code>fixDuration 30</code>	15	Min 5s, max 3600s (1h)
<code>gnss set get fixTimeout <seconds></code>	<code>fixTimeout 60</code>	180	Min 30s, max 3600s (1h)
<code>gnss set get activeAntenna on off</code>	<code>activeAntenna on</code>	on	
<code>gnss get location</code>	<code>location</code>		
<code>gnss sync now</code>	<code>Starting sync now</code>		

- `sync on|off`: Turn GNSS reception on/off
- `syncTime`: The time at which the GNSS module is turned on
- `syncInterval`: How often the GNSS module is turned on
- `syncTimeout`: How many hours the device can run without synchronization before it enters an error state
- `fixDuration`: How long GNSS reception remains active
- `fixTimeout`: How long the receiver should remain active when there is no reception
- `activeAntenna`: Whether an active antenna is used or not

6.4. System

Command	Sample Response	Note
<code>system get deviceType</code>	<code>GU_192_V3</code>	
<code>system get firmwareName</code>	<code>xU_192_V3</code>	
<code>system get firmwareNumber</code>	<code>123456</code>	
<code>system get firmwareVersion</code>	<code>1.2.3</code>	
<code>system get batteryVoltage</code>	<code>2853mV</code>	
<code>system get state</code>	<code>2</code>	
<code>system save settings</code>	<code>Settings Saved</code>	
<code>system update</code>	Connection stops	Device enters update mode
<code>system reset</code>	Connection stops	Restart, settings are retained
<code>system factoryReset</code>	Connection stops	Settings are reset to default

When the `update` command is executed, the device disconnects from the USB connection and reconnects in DFU bootloader mode.

With the reset commands `reset` and `factoryReset`, the connection is interrupted by the reboot and is immediately reestablished.

7 Technical Data

GNSS Systems	GPS, Gallileo, Glonass, Beidou
GNSS Bands	
Accuracy	20ppm @ 25°C, corrected on GNSS reception
Antenna	SMA Connector with optional 3.3V power supply
Power Supply	2V - 3.6V
Average Power Consumption	
Check of hand position	1 x per 12 hours
Dimensions of hands max.	As per DIN 41092/3 for dial-ø up to 80 cm
Weight of hands max.	Balanced min. hand 140g, hour hand 110g
Fixing	Central nut M12 x 1 mm
Dimensions	@todo
Weight (1)	@todo
Connections	SMA (GNSS Antenna), USB-C (Configuration), RJ12 (Cascade)

(1) Without Batteries

8 Accessories

144219	GNSS Antenne SMA with 5m cable (included in all GU 192 V3)
116022	COM 100 Cascade Cable 1m
116025	KEY 192 Remote control key
tbd	NT 192 V3 External Power Supply Unit
106895	LIT Long life lithium battery SL-790
tbd	2x Alkaline D Battery

9 Time Zone Table

Time zones are supported according to the official IANA Database Version 2025c

9.1. Africa

Abidjan	Algiers	Bissau	Cairo
Ceuta	Johannesburg	Juba	Khartoum
Lagos	Maputo	Monrovia	Nairobi
Ndjamena	Sao_Tome	Tripoli	Tunis
Windhoek			

9.2. America

Adak	Anchorage	Araguaina	Buenos_Aires
Catamarca	Cordoba	Jujuy	La_Rioja
Mendoza	Rio_Gallegos	Salta	San_Juan
San_Luis	Tucuman	Ushuaia	Asuncion
Bahia	Bahia_Banderas	Barbados	Belem
Belize	Boa_Vista	Bogota	Boise
Cambridge_Bay	Campo_Grande	Cancun	Caracas
Cayenne	Chicago	Chihuahua	Ciudad_Juarez
Costa_Rica	Coyhaique	Cuiaba	Danmarkshavn
Dawson	Dawson_Creek	Denver	Detroit
Edmonton	Eirunepe	El_Salvador	Fort_Nelson
Fortaleza	Glace_Bay	Goose_Bay	Grand_Turk
Guatemala	Guayaquil	Guyana	Halifax
Havana	Hermosillo	Indianapolis	Knox
Marengo	Petersburg	Tell_City	Vevay
Vincennes	Winamac	Inuvik	Iqaluit

Jamaica	Juneau	Louisville	Monticello
La_Paz	Lima	Los_Angeles	Maceio
Managua	Manaus	Martinique	Matamoros
Mazatlan	Menominee	Merida	Metlakatla
Mexico_City	Miquelon	Moncton	Monterrey
Montevideo	New_York	Nome	Noronha
Beulah	Center	New_Salem	Nuuk
Ojinaga	Panama	Paramaribo	Phoenix
Port-au-Prince	Porto_Velho	Puerto_Rico	Punta_Arenas
Rankin_Inlet	Recife	Regina	Resolute
Rio_Branco	Santarem	Santiago	Santo_Domingo
Sao_Paulo	Scoresbysund	Sitka	St_Johns
Swift_Current	Tegucigalpa	Thule	Tijuana
Toronto	Vancouver	Whitehorse	Winnipeg
Yakutat			

9.3. Antarctica

Casey	Davis	Macquarie	Mawson
Palmer	Rothera	Troll	Vostok

9.4. Asia

Almaty	Amman	Anadyr	Aqtau
Aqtobe	Ashgabat	Atyrau	Baghdad
Baku	Bangkok	Barnaul	Beirut
Bishkek	Chita	Colombo	Damascus
Dhaka	Dili	Dubai	Dushanbe
Famagusta	Ho_Chi_Minh	Hong_Kong	Hovd
Irkutsk	Jakarta	Jayapura	Jerusalem

Kabul	Kamchatka	Karachi	Kathmandu
Khandyga	Kolkata	Krasnoyarsk	Kuching
Macau	Magadan	Makassar	Manila
Nicosia	Novokuznetsk	Novosibirsk	Omsk
Oral	Pontianak	Pyongyang	Qatar
Qostanay	Qyzylorda	Riyadh	Sakhalin
Samarkand	Seoul	Shanghai	Singapore
Srednekolymensk	Taipei	Tashkent	Tbilisi
Tehran	Thimphu	Tokyo	Tomsk
Ulaanbaatar	Urumqi	Ust-Nera	Vladivostok
Yakutsk	Yangon	Yekaterinburg	Yerevan

9.5. Atlantic

Azores	Bermuda	Canary	Cape_Verde
Faroe	Madeira	South_Georgia	Stanley

9.6. Australia

Adelaide	Brisbane	Broken_Hill	Darwin
Eucla	Hobart	Lindeman	Melbourne
Perth	Sydney		

9.7. Europe

Andorra	Astrakhan	Athens	Belgrade
Berlin	Brussels	Bucharest	Budapest
Chisinau	Gibraltar	Helsinki	Istanbul
Kaliningrad	Kirov	Kyiv	Lisbon
London	Madrid	Malta	Minsk

Moscow	Paris	Prague	Riga
Rome	Samara	Saratov	Simferopol
Sofia	Tallinn	Tirane	Ulyanovsk
Vienna	Vilnius	Volgograd	Warsaw
Zurich			

9.8. Indian

Chagos	Maldives	Mauritius	
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9.9. Pacific

Apia	Auckland	Bougainville	Chatham
Easter	Efate	Fakaofu	Fiji
Galapagos	Gambier	Guadalcanal	Guam
Honolulu	Kanton	Kiritimati	Kosrae
Kwajalein	Marquesas	Nauru	Niue
Norfolk	Noumea	Pago_Pago	Palau
Pitcairn	Port_Moresby	Rarotonga	Tahiti
Tarawa	Tongatapu		

9.10. Generic Zones

GMT	GMT+1	GMT+10	GMT+11
GMT+12	GMT+2	GMT+3	GMT+4
GMT+5	GMT+6	GMT+7	GMT+8
GMT+9	GMT-1	GMT-10	GMT-11
GMT-12	GMT-13	GMT-14	GMT-2
GMT-3	GMT-4	GMT-5	GMT-6
GMT-7	GMT-8	GMT-9	UTC



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