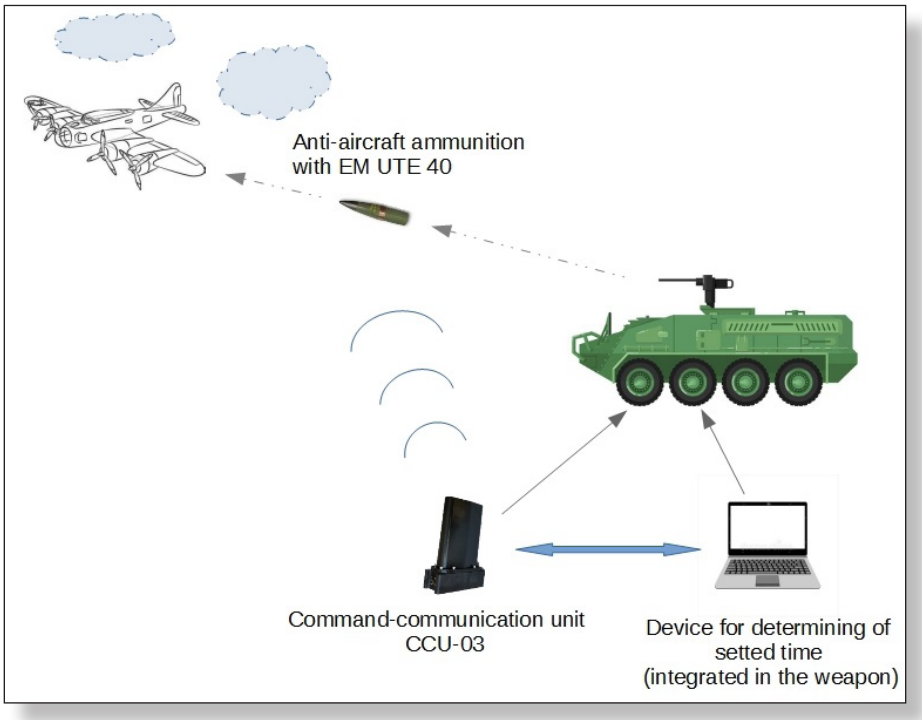


EM UTE 40

Electronic module

Electronic module of time fuze UTE 40 is used to complete 40 mm caliber ammunition.

Function of EM UTE 40 is to initiate activation of explosive charching with setted time of burst. It can be used for anti-aircraft ammunition as well for targets on the ground. Characteristics of this product, as a complete system, are maximal precision, high reliability and easy using.

In the vehicle itself, there is a device for determining of setted time, that is used to communicate with the command-communication unit CCU-03. The CCU-03 is used for remotely setting the time of the fuze (on trajectory), after firing. The figure below shows an example of mounting the CCU-03 on a vehicle

Electronic module UTE 40 has the option of a remote-controlled time setting, a backup impact, as well as a default self-destruction time. The time range of this module is from 300 ms to 30 s while the self-destruction time is usually factory set to 13 s or 17 s, but both parameters can be changed according to customer requirements. Electronic blocking time (safety time) of 50 ms can also be customized to customer requirements. The module is powered by an ampoule battery. The built-in ampoule battery is an electrochemical power source. Battery is activated after the projectile is fired (axial force), with the rotation of the projectile itself (centrifugal force). The technical characteristics of the EM UTE 40 are given below:

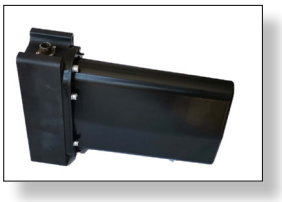
Technical characteristics:

- Electronic module of time fuze UTE, 40
- Operational mode: time (remotely controled)
  backup impact (super quick)
  default self destruction time
- Caliber 40 mm
- Electronic blocking time* 50 ms
- Time of burst* 300 ms – 13 s
- Range with step of 1ms
- Default self destruction time* usually 13 s or 17 s
- (can be in range of 300 ms - 30 s, factory setted)
- Power supply ampoule battery
- Shelf life (min) 15 years
- Setting with command-communication unit
  CCU-03 after firing

** adjustable per customer requirements*

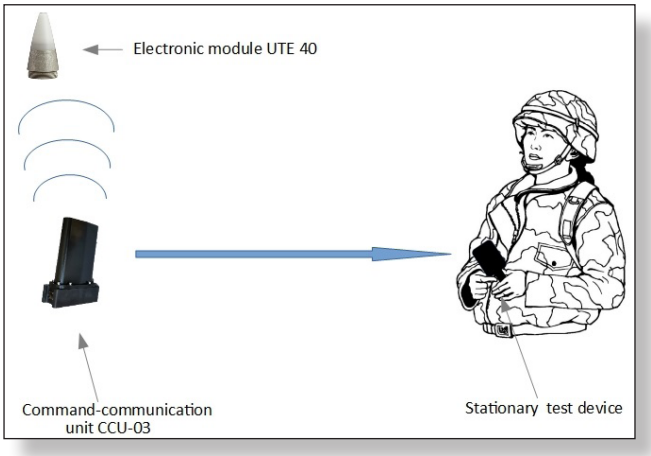
COMMAND-COMMUNICATION UNIT CCU-03

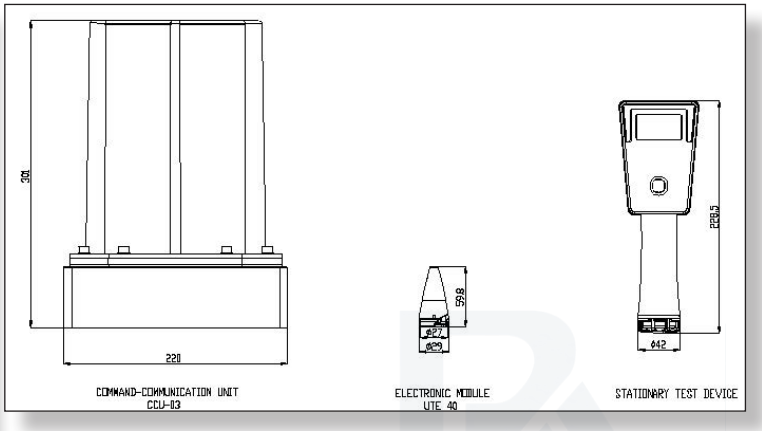
The CCU-03 command-communication unit is used for remote time setting of the fuze. The unit itself is powered by a vehicle battery (or other power supply) with a nominal voltage of 24V. It has the possibility of one-way communication with the fuze and it set the time after the projectile is fired.



- Purpose remote setting the time of burst to the fuze
- Current consuption up to 300mA
- Voltage nominally 24V

Functionality checking of command-communication unit CCU-03 is performed with a stationary test device, befoure firing. The device checks which time is sent to the fuze. The read time is shown on the display. It is powered by a 3.6 V primary battery. The figure below illustrates how the device works:





Overall dimensions of devices

All products and production processes are carried out with use of high quality standards for development, production and testing of weapons and military equipment, in accordance with highest international quality standards SRPS ISO 9001/2015, MIL-STD-1316, STANAG-4187, MILSTD-331and MIL-STD-810.