



# ELT Tester

We'd like to represent a brand new device 406 MHz ELT TESTER (TEST SET) which is designed to check the avionics emergency locator transmitters (ELT) operating via COSPAS-SARSAT system. This high end device has remarkable advantages: first of all the tests can be carried out in volume of annual test requirements or in volume of maintenance requirements or for fast check after ELT's encoding or installation. Besides this tester can receive the messages from any 406 MHz COSPAS-SARSAT beacons transmitting either in test mode or in real alert emergency mode. The signal can be received through the broadcast by means of antenna or the tester can be connected directly by means of cable through a suitable attenuator. Radiated tests in real alert emergency mode should be carried out using screened room (or enclosure) only.

Since it is crucial for the beacon ID to be registered with the national authorities, the 406 MHz ELT Tester provides an easy means to verify the ID after installation or reprogramming.

The tester provides demodulation and decoding of the emergency information and displays on your choice the HEX-code (15 Hex ID or the message 1-112 bit) as well as all decoded information in text view with all measured parameters. Besides, the BCH code is calculated and compared with received one, and the result is displayed. The tester provides measurement of received signal level on a frequency of 406 MHz within the range 19.43 dBm or 0.08-20 W with accuracy to +1/-5 dB.

The tester provides measurement of received signal level on a frequencies of 121.5 MHz and 243 MHz within the range 13.20 dBm or 20-100 mW with accuracy to ± 3 dB.

The tester allows to perform the measurement of beacon



parameters by means of standard external antenna (from 3 to 15 meters), as well as via high-frequency cable and attenuator connection. Calibration test of the power meter is performed for 5 meter distance.

## THE TESTER ALLOWS TO PERFORM

- reception, demodulation and decoding of the emergency information transmitted on channel 406 MHz;
- frequency measurement of 406 MHz signal;
- audio-control of the sweep of 121,5 MHz signal presence;
- audio-control of the sweep of 243 MHz signal presence;
- level measurement on 406 MHz channel;
- level measurement on 121.5 MHz channel;
- level measurement on 243 MHz channel;
- estimation of the positive/negative phase deviation of modulated signal;
- measurement of total transmission time of 406 MHz signal;
- measurement of unmodulated carrier duration of 406 MHz signal;
- estimation of the equivalent radiated power of 406 MHz signal through broadcast.

The tester is designed to operate at the temperature range from 0 oC to + 45 oC and relative air humidity should be no more than 95%, which is determined by used LCD.

The tester power supply is performed by 4 AA batteries 1,5 V, as well as by external DC source with voltage 4,5...7 V and load current no less than 300 mA. The tester is power supplied by USB cable when connected to computer or net USB adapter

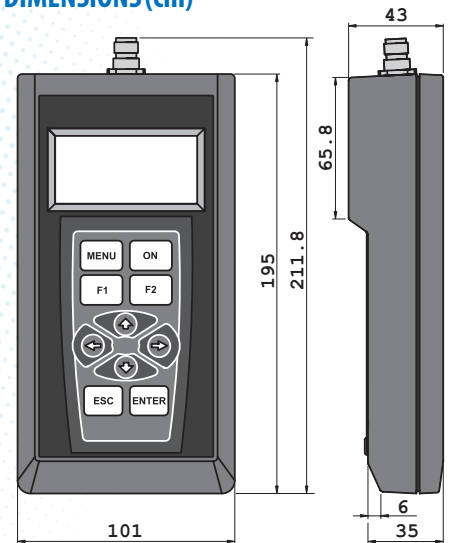
## FEATURES

- All 406 MHz aircraft protocols will be decoded
- Reception the signal within the range of 406.020 or 406.040 MHz frequencies
- Easy recalibration without returning back to factory
- Easy and quick audio-control of the sweep signal presence on a frequencies of 121,5MHz and 243MHz
- Internal database of received messages with possibility to save upto 10 results
- Easy connection to PC, laptop, notebook to process the stored data
- Windows user friendly desktop application for database storage and review, process and test reports preparation
- Longlifebatteries, easy replace
- External RF attenuator in standard delivery set
- Easy recalibration without returning back to factory
- 1 year warranty

## COMPLETE SET

- ELT Tester 406 03
- Antenna
- PC cable (USB A – USB A 1.5m)
- Technical description and operation manual
- HF - attenuator
- HF cable TNC/TNC 0.5 m RG58
- HF cable BNC/TNC 1 m RG58
- Device packing
- High-frequency cable
- Software and software user's manual
- Power adapter (USB adapter)

## DIMENSIONS (cm)



Available from



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