

WTE-BT-01

406 + AIS SART Portable Beacon Tester

The WTE-BT-01 is a portable and simple to use beacon tester that allows testing of AIS and 406 rescue beacons.

The WTE Beacon Tester has been designed to help meet the beacon test requirements for SOLAS and IMO circulars 1039 and 1040, as well as to assisting in locating and identifying beacons for search and rescue operations.

General Operation

The WTE-BT-01 is a portable and simple to use beacon tester that allows testing of AIS and 406 rescue beacons.

The WTE Beacon Tester has been designed to help meet the beacon test requirements for SOLAS and IMO circulars 1039 and 1040, as well as to assisting in locating and identifying beacons for search and rescue operations.

Features:

The following features make this device a powerful and versatile tool for testing and locating radio beacons:

- Generation and storage of beacon reports, including decoded transmission details, signal strength and frequency accuracy
- Extremely simple to use with single button test operation.
- Ability to test 406 distress radio beacons (EPIRB, PLB, ELTs) and confirm 121.5 MHz homing signal.
- Ability to test AIS SART radio beacons (EPIRB AIS, PLB AIS, AIS-SART).
- Stand-alone operation, without the need for connected equipment to analyse results.
- USB connection for downloading/inspecting of generated reports on most computers and devices.
- Inbuilt simple spectrum analyser, allowing confirming operation of many VHF/UHF radio transmitters from 121 MHz to 480 MHz.
- Signal strength tools for homing signal direction finding (using a directional antenna).
- Dual AIS receivers for summary of vessel operation in the area.
- Portability and alert functionality for Search and Rescue applications.
- Ergonomic design that fits comfortably in your hand.
- Up to 10 hours continuous use using alkaline AAA cells.

Benefits

The WTE-BT-01 is a portable and simple to use beacon tester that allows testing of AIS locating and identifying beacons for search and rescue operations.

Features:

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Specifications:

406 Frequency Range All used 406 Beacon frequencies
406.020MHz – 406.045MHz (concurrently)
Battery 6 x AAA Alkaline
Antenna Connectors SMA female
Max Operating Time 10 hours
Max Useful Input Power 0 dBm
Connecting a 406 beacon directly to the aerial
input will result in certain damage

Receiver Sensitivity:

121.5MHz -110 dBm.
406 MHz -118 dBm
AIS (A) MHz -110 dBm
AIS (B) MHz -110 dBm

Receiver:

Receiver Absolute Maximum Input Power +13dBm
Do NOT connect directly to a 406 beacon
Calibration Required every 2 years
Frequency Accuracy +/-400Hz. 100Hz resolution
RSSI Range -110dBm to 0dBm (not calibrated)
RSSI Resolution 0.5 dB
Antenna Connectors SMA female
Operating Current 85mA plus
20mA when backlight enabled
Firmware Field upgradable
Internal Storage Capacity 4GB
406 Error Correction Correction of up to 5 bit errors per 406 packet
AIS Decode Support Both 161.975MHz and 162.025MHz.
Alert only on type 1 SART status 14 or 15 as configured.
406 Location Protocol Support All COSPAS SARSAT C/S T001
Issue 3 Rev 12 Location protocols.
• User Location Protocol
• Standard Location Protocol
• Standard Test Location Protocol
• National Location Protocol
• National Test Location Protocol
• RSL Location Protocol
Test Support: SOLAS and IMO circulars 1039 and 1040

Spectrum Analyser:

Frequency range: 142-175, 350 - 499 MHz
RBW: 1kHz/25kHz
Span: 120kHz/3MHz
Mode: Continual or peak display
Mode: Continual or peak display
Min signal: -120dBm, max signal -10dBm.
Input Power accuracy: 421-480MHz +/-8 dB,
120-175MHz +/-2dB.

Mechanical:

Weight 300 Grams
Dimensions 214 x 100 x 36mm

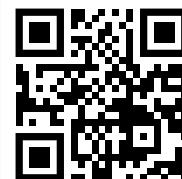
Environmental

Operating Temperature -30 to +55 °C
IP Rating IP52

For latest information and specifications please visit wte.co.nz



CONTACT YOUR LOCAL WTE AUTHORIZED DISTRIBUTION PARTNER FOR MORE INFORMATION



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