AvionTEq
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Techtest Limited

Portable 406 SAR Decoder

12-406-9

HR Smith Group of Companies
www.hr-smith.com

Portable 406 SAR Decoder

12-406-9

The 12-406-9 is a handheld 406 decoder that receives and decodes COSPAS SARSAT distress or test messages. The unit can be set-up to monitor all transmissions (including tests) or distress only.

- COSPAS/SARSAT 406MHz Detection and Decoding
- Messages decoded and displayed in an easy to understand format
- Touch screen interface
- Internal Antenna
- Internal re-chargeable battery
- USB to PC connectivity

The need to detect and locate downed aircrew has always existed. Accurately pin pointing both aircraft and crew can sometimes necessitate a lengthy search scenario. The increased population of COSPAS /SARSAT (C/S) 406MHz beacons worldwide is aiding the task significantly. In particular, for those able to transmit with embedded GPS, the potential is there for the land or airborne Search and Rescue (SAR) forces to affect immediate rescue.

The Techtest 12-406-9 is specifically designed to detect, locate, and verify any 406MHz beacon transmission, including ELT or ADELT/CPI and EPIRBs. It can be used either as a test tool on the ground or as portable equipment on a SAR mission. It is able to immediately display the transmitted GPS Lat/Long location of the beacon if present and, in conjunction with the built in GPS receiver, display range and bearing information.

The handheld unit includes a colour touch screen providing a clear display of information with user configurable fields. The integral antenna results in a compact device easy to carry. Data is updated continuously as new messages are received and decoded (typically every 50 seconds from one beacon). If multiple beacons are transmitting then all are summarized on a scrolling display. Individual messages can be selected to display full decode information. Data can be transferred to a PC for later analysis.

The unit can be fixed to a wall, using an optional mounting tray, and configured as a remote monitoring station. In this case data is logged automatically by a Windows Based Application.

Specification

Features

All C/S protocols decoded
Touch Screen control
Clear, uncluttered display
Integrated Internal 406MHz Antenna
Audible Alert
Built in GPS receiver
Bearing & Distance to Beacon displayed
USB download
USB slave mode
Battery Life monitor

Basic Information Display:	Frame Sync (Test/Alert)
	Time passed since alert
	Beacon Serial / Reg Information
	Position (where available):
	Lat/Long; Range/Bearing
	Aux Radio Locating (121.5MHz)
Advanced Display information	Full Hex / 15 Hex ID
	Full decode:
	Country Code
	National Use Fields
	Activation Type
	Protocol Type
	Type Approval Certificate (TAC) Number

Display	Colour Touch Sceen, resolution 240 x 320
Power supply	1) Internal Batteries NiMH (Rechargable via DC input)
	2) External DC 12V
Battery Life	>2 hours
Recharge Time	~6 hours
Frequency	Current and future Cospas/Sarsat allocations (406 MHz)
Decode Sensitivity	-100dBm
Connections:	DC power
	USB
Size: Height/Width/Length	200mm x 120mm x 39mm
Weight	660 gms

Optional

Fixed Mounting Tray
Windows based application for remote alert monitoring
External Battery Pack: extended operation
External Antenna: Improved reception range
Ruggedised Case

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