STP8000
HAND-PORTABLE

The STP8000 TETRA radio is a high performance, **rugged** hand-portable designed to be worn on the belt, but flexible enough to be worn elsewhere on the body.

TOUGH

The STP8000 has been designed to perform in the most physically challenging environments. It offers the reassurance of continued operation irrespective of the knocks and drops of operational use in extreme weather conditions and dusty environments.

HIGH PERFORMANCE

The RF Power is fully customisable up to **1.8 Watts** in TMO, DMO and as a **DMO Repeater**, delivering reliable communications when most needed, **extending coverage** beyond the reach of typical hand-portable radios.

The largest front-facing loudspeaker available in a TETRA hand-portable provides powerful, clear audio and alerting even in the noisiest environments.

FEATURE-RICH

The STP8000 boasts a comprehensive set of features including optional GPS and **Man-Down** functionality - both **improving user safety**, efficiency and **reducing operational costs.**

sepura
First in TETRA

THE **STP8000** IS THE MOST RUGGED TETRA HAND-PORTABLE

EMERGENCY OPERATION

THE EMERGENCY KEY IS LOCATED ON THE TOP OF THE RADIO IN A RECESS BETWEEN THE NAVI-KNOB™ AND THE ANTENNA - FACILITATING EASE OF ACTIVATION AND ENHANCING USER SAFETY.

NAVI-KNOB™ OPERATION

WHEN USED IN COMBINATION WITH THE MODE KEY, PROVIDES QUICK ACCESS TO TALKGROUPS, VOLUME ADJUSTMENTS, USER PROFILE SELECTION AND STATUS MESSAGING.

LARGE TACTILE PRESS-TO-TALK KEY

LOCATED ON THE SIDE OF THE RADIO IMMEDIATELY BELOW A SOFT KEY.

ERGONOMIC KEYPAD

LARGE, WELL-SPACED KEYS TO ENSURE EASY AND ACCURATE OPERATION - EVERY TIME.

POWERFUL AUDIO

THE LARGE LOUDSPEAKER DELIVERS LOUD, CLEAR AUDIO, EVEN IN THE NOISIEST ENVIRONMENTS.

MAN-DOWN PERSONAL SAFETY

MULTI-DIMENSIONAL MOTION SENSING TECHNOLOGY IS USED TO AUTOMATICALLY PROVIDE MAN DOWN DETECTION AND REPORTING.

SMA ANTENNA CONNECTOR

DELIVERS 1.8 WATTS OF RF POWER IN TMO, DMO AND REPEATER MODES. INCREASES RANGE BY UP TO 20% WHEN COMPARED TO STANDARD TETRA HAND-HELDS, EXTENDING NETWORK AND DIRECT MODE COVERAGE.

MISSED EVENT INDICATOR

A BLUE LED INDICATES THAT A CALL OR MESSAGE HAS BEEN MISSED. A SOFT KEY FUNCTION CAN BE CONFIGURED TO DISPLAY A LIST OF MISSED CALLS OR MESSAGES.

LARGE COLOUR DISPLAY

THE LARGE, CLEAR DISPLAY USES 'DUAL ILLUMINATION' TECHNOLOGY TO ENSURE SCREEN CLARITY UNDER ALL LIGHT CONDITIONS.

RUGGED ACCESSORY CONNECTOR

WITH SECURE SCREW DOWN FEATURE TO ENSURE A RELIABLE CONNECTION FOR A COMPREHENSIVE RANGE OF AUDIO ACCESSORIES.

FEATURE ACTIVATION KEYS

PROVIDE INSTANT ACCESS TO FEATURES VIA A SINGLE KEY PRESS - USED FOR RAPID NAVIGATION THROUGH THE USER MENU.

PRODUCT DESIGN

WITH IP55 CLASSIFICATION, AN INTERNAL METAL CHASSIS AND TOUGHENED PLASTIC CASING, THE STP8000 IS PROVEN TO PERFORM IN THE MOST DEMANDING OPERATIONAL ENVIRONMENTS.

TOUGH · HIGH PERFORMANCE · FEATURE RICH

Product is not actual size

STP8000 HAND-PORTABLE:

- Rugged
- **High Power** RF and Audio
- Fully integrated, ultra-sensitive GPS option
- Automatic Man-Down reporting option
- Fully integrated **Bluetooth™** option
- Micro-SD memory card slot
- End-to-End Encryption requires only a software upgrade for activation[2]
- DMO Repeater ready (frequency efficient Type 1A option) with Call Participation
- A wide range of market leading accessories
- Supported by Sepura's market-leading software tools, including Radio Manager.

The STP8000 is a rugged TETRA hand-portable radio designed and built to exceed industry standard IEC529 **IP55** for day to day use in some of the harshest working environments.

FEATURE-RICH TETRA RADIOS WITH A LARGE, HIGH RESOLUTION COLOUR DISPLAY

Sepura was the 'first in TETRA' to introduce **Large Character Mode** on hand-portable radios. On the STP8000 all text can be displayed in large format (double normal size) or very large format (approximately four times normal size) to give better legibility.

The User Interface (UI) of the STP8000 Hand-Portable range is common to all other Sepura hand-held and vehicle radios. By employing the same easy-to-use, **quick access menu system**, training costs can be substantially reduced and users can move easily between radio types during their working day.

The STP8000 has been specifically designed to provide easy access to the features of the radio with the minimum of key presses.

STP8000 HAND-PORTABLE APPLICATIONS

Application support to and from control centres, databases and intranets can be achieved using the efficient Sepura **Short Data Applications** or WAP browsing. The STP8000 can send and receive information using multi-slot packet data, circuit data, Status or SDS services.

The STP8000 includes a standard **Micro SD card** slot so that photos, maps, missing person information and hazardous chemical data can all be stored on a 32GB memory card. As this is a removable industry standard formatted card, it is easy to manage and update a data using standard PCs and PDAs.

The flexible STP8000 is an ideal radio platform for running and storing applications in the future, for example: audio recording and playback, network logging and other datalogging functionality (eg: calls, messages, location updates, etc).

AT THE FOREFRONT OF USER SAFETY

The fully integrated **GPS** receiver in the STP8000 is capable of processing extremely low strength signals meaning that 'clear sight of sky' is no longer essential. In addition to the standard position reporting, the STP8000 can send current GPS location information when an Emergency Call, Lone Worker or Man-Down alert is initiated.
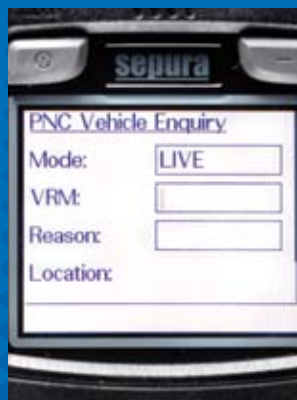
The **Man-Down** reporting option uses multi-dimensional motion sensing technology to monitor both the orientation and motion of the radio user. If certain parameters are exceeded, Man-Down functionality will automatically place the radio into the emergency mode generating an alert, complete with location report directed to a predefined address.

This technology enables control rooms to track the movement of staff and to be automatically alerted in the case of a field worker becoming incapacitated.

STP8000 HAND-PORTABLE CONNECTIVITY

Bluetooth, **wireless connectivity,** is avaiable as an option on the STP8000. The vast majority of **commercially available Bluetooth devices** can be used with the STP8000 including: rugged headsets, personal computers, PDAs and Bluetooth-based beacon location systems.

The STP8000 also supports a full range of conventional wired accessories for data and voice, a car kit, plus a large number of battery charging options to meet different operational needs.

STP8000
HAND-PORTABLE

DIMENSIONS

Height: 133mm
Width: 61mm (54mm)
Depth: 32mm (Standard Battery)
Depth: 37.5mm (High Capacity Battery)

WEIGHT

With Standard Battery: 250g
With High Capacity Battery: 275g

FREQUENCY BANDS

299-344MHz – STP8030
344-400MHz – STP8035
380-430MHz – STP8038
407-473MHz – STP8040
806-870MHz – STP8080

POWER SUPPLY

7.4V (nominal) Lithium Polymer
Battery Packs
Intelligent Reporting Batteries
1260mAh Standard Battery
1400mAh Mid Capacity Battery
1880mAh High Capacity Battery

RF PERFORMANCE

RF Power – MS Power Class 3L
(1.8 Watts)
RF Power – customisable for
TMO/DMO/REP
Adaptive Power Control Supported
Receiver Class – A and B
Receiver Static Sensitivity - 112dBm
Receiver Dynamic Sensitivity - 103dBm

PRODUCT PERFORMANCE

Audio Power - >1 Watt
Operational Temperature (Conformance tested)
-20°C to +60°C
Operational Temperature (Min/Max)
-30°C to +70°C[4]
Storage Temperature -40°C to +85°C[1]
Dust & Water Protection IP55
Shock, Drop & Vibration ETS 300 019

PRODUCT OPTIONS

GPS
Bluetooth
Man-Down Alarm[3]
DMO Repeater Type 1A
Air Interface Encryption Options
End to End Encryption Options
Wide Range of Languages & Keymats

DISPLAY AND USER INTERFACE

Large 30x38mm Active LCD Area
Hi Resolution display (176 x 220 pixels)
Transflective TFT Display, 262K colours
Normal, Large & Very Large Mode Text
18 Configurable Feature Activation Keys
Vibrate Call/message
Call History
Phone Book (2000 entries)
9900 Talkgroups in TMO/DMO
5000 Multi-Level Talkgroup Folders
Intelligent Search Facility
Quick Groups
Transmit Inhibit with on/off Status Messaging
Fixed & definable Scan Lists
Remaining Charge Time Indication
Missed Call Indicator

VOICE SERVICES

Full Duplex Calls (to MS and PABX/PSTN)
Half Duplex Calls (Individual and Group)
Priority Call
Emergency Call (Pre-emptive Priority)
Intelligent Alarm Reporting
Talking Party Identity
Calling Line Identity Presentation
DTMF Dialling
MSISDN Dialling
Abbreviated Dialling
Dynamic Group Number Assignment
Background (hidden) Groups
DMO Individual Call
DMO Group Call
DMO Emergency Call
DMO Intelligent Emergency Call
Independent Volume Control

DATA SERVICES AND APPLICATIONS

Status Messaging (in TMO & DMO)
SDS Messaging (in TMO & DMO)
Concatenated SDS Messaging
Multi-slot Packet Data
Circuit Mode Data
TETRA Pager and Call Out
WAP Browsing
Short Data Applications
Image & Map Storage on Memory Card
Lone Worker Feature
Missed Event Application

LOCATION BASED SERVICES

GPS Integrated Option -190dBw (-160dBm)
Tracking Sensitivity, Bluetooth Location System
GPS Based Compass
Over The Air GPS reporting using the
following protocols
• ETSI Location Standard Reporting (LIP)
• NMEA & Sepura Compact Messaging

SECURITY SERVICES

Authentication
Class 1, 2 and 3 TETRA Security
Air Interface Encryption
TEA1/2/3/4 Supported[2]
Smart Card E2E Encryption Support[2]
Embedded E2E Encryption Support[2]
Indigenous E2E Encryption Algorithm Support[2]
Multiple E2E Algorithm Support[2]

DMO REPEATER SERVICES (LICENCE REQUIRED)

DMO Voice Repeated
DMO Tone Signalling Repeated
Group Status & SDS Repeated
Type 1A Efficient Operation over one
Frequency Channel
Presence Signal Support
Emergency Call
Monitoring & Participation in Calls

CONNECTIVITY

TETRA V+D
Bluetooth Support for Voice and Data (PEI)
PEI Data via RS232 and USB Data Cables
Audio Connections via Rugged Accessory
Connector
High Speed Interface for Feature-rich Audio
Accessories
Audio and Data Connection via Facility
Connector
Micro SD Card Slot

ACCESSORIES

Personal Charger
Vehicle DC Charger
1+1 Desktop Charger
6+6 Desktop Charger
12 and 24 Way Battery only Chargers
Wide Range of Antennas
Stud and Belt Attachments
Rugged Belt Clip
Rugged and Soft Leather Cases
Basic IP55 Remote Speaker Microphone
Advanced Remote Speaker Microphone
Hands-Free Kit
Personal Ear Pieces
Public Order Accessories
Semi-Covert Accessories
Feature-rich Car Kit
Serial and USB Data Leads
4 & 8 Way Programming Pods

1 – As defined in ETSI EN300 019-2-1 and EN300 019-2-2
2 – Availability is subject to export licence.
3 – The Man-Down Alarm should in no way be regarded as a substitute for compliance
with appropriate risk assessment and other safety procedures and practices.
To enable Man-Down a Software License is also required.
4 – Operating at temperature extremes may limit some aspects of operational performance

Sepura's policy is to continually improve its products and services. The features and
facilities described in this document were correct at publication, but are subject to
change without notice.

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