

# STP9200

## 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

380-430MHz – STP9238  
407-473MHz – STP9240  
806-870 MHz – STP9280

### POWER SUPPLY

7.4V (nominal) Lithium Polymer Battery Packs  
Intelligent Reporting Batteries  
1160mAh 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  
(-115dBm typical)  
Receiver Dynamic Sensitivity - 103dBm  
(-106dBm typical)

### PRODUCT PERFORMANCE

Audio Power - >1 Watt  
Operational Temperature (Conformance tested) -20°C to +60°C  
Operational Temperature (Min/Max) -30°C to +70°C<sup>4</sup>  
Storage Temperature -40°C to +85°C<sup>1</sup>  
Dust and water protection to both IP67 and IP65 (waterproof, submersible, sprayproof and dustproof), plus tested for complete 8hr shifts “in the pouring rain”  
Shock, drop & vibration ETS 300 019  
Salt fog: MIL810E 509.4(I); duration 24hr salt<sup>5</sup>  
Salt water: submersion, rated at 1m depth for 30 minutes<sup>5</sup>

### PRODUCT OPTIONS

GPS  
DMO Repeater Type 1A  
Air Interface Encryption Options  
End-to-End Encryption Options  
Man-Down Alarm<sup>3</sup>  
Smartcard Support  
Coloured Bezels  
Wide range of languages supported

### RFID PERFORMANCE

Internal tag – HITAG S2048, short range, 125KHz, ISO11784 and ISO11785 compliant  
Range: 1 cm from back of individual radio box pack  
User accessible storage – 512 bits, Passive technology pre-programmed (user can overwrite):  
32 bit unique identifier  
Serial number  
Hardware code  
TEI

### DISPLAY AND USER INTERFACE

Active LCD area 37mm x 19 mm, with 128 x 64 resolution  
High visibility monochrome display  
Call history  
7 configurable feature activation keys  
Phonebook (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  
Intuitively-enhanced user interface  
Choice of three user interface presentation styles (Compatibility mode, List mode and Grid mode)  
Wake-on-alarm function

### VOICE SERVICES

Full duplex calls (to MS and PABX/PSTN)<sup>6</sup>  
Half duplex calls (Individual and Group)<sup>6</sup>  
Priority call  
Emergency call (pre-emptive priority)  
Intelligent alarm reporting  
Talking party identity  
Calling line identity presentation  
MSISDN dialing  
Abbreviated dialing  
Dynamic group number assignment  
Background (hidden) groups  
DMO individual call<sup>7</sup>  
DMO group call  
DMO emergency call  
DMO intelligent emergency call  
Independent volume control  
Enhanced full duplex ear sealing  
Independent Volume Control  
DTMF dialling from address book<sup>7</sup>  
Ambience listening  
Privacy Mode  
Whisper Mode  
Group Focus

### DATA SERVICES AND APPLICATIONS

Status messaging (in TMO & DMO)  
SDS Messaging (in TMO & DMO)<sup>7</sup>  
Concatenated SDS messaging<sup>7</sup>  
Multi-slot packet data  
Circuit mode data  
TETRA pager and call out  
Short Data Applications (SDAs)  
Lone-Worker feature  
Battery status advised immediately on start-up  
Missed event notification

### LOCATION BASED SERVICES

GPS integrated option -192dBw (-162dBm) tracking sensitivity  
Over-The-Air GPS reporting using the following protocols  
• ETSI location standard reporting (LIP)  
• NMEA & Sepura compact messaging  
GPS-based compass  
Enhanced indoor start-up and acquire through ‘predictive ephemeris’  
RFID tag equipped

### SECURITY SERVICES

Authentication  
Class 1, 2 3 and 3G security  
Air interface encryption  
TEA1/2/3/4 Supported<sup>2</sup>  
Embedded E2E encryption support<sup>2</sup>  
Smartcard E2E encryption support<sup>2</sup>

### DMO REPEATER SERVICES (LICENCE REQUIRED)

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

### CONNECTIVITY

TETRA voice and data  
PEI Data via RS232 and USB data cables  
Accessory connections via Rugged Accessory Connector (RAC)  
High speed interface for feature-rich audio accessories  
Data connection via facility connector  
Passive 125KHz RFID tag

### ACCESSORIES

Personal charger  
Vehicle DC charger  
1+1 desktop charger  
6+6 desktop charger  
12- and 24-way battery-only chargers  
2-way, battery-only charger for vehicles  
Wide range of antennas  
Stud and belt attachments  
Rugged belt clip  
Rugged and soft leather cases  
Basic IP55 remote speaker microphone  
Advanced IP55 remote speaker microphone (with/without RF antenna)  
Hands-free kit  
Personal ear pieces  
Public order accessories  
Semi-covert accessories  
Feature-rich and basic car kits  
Serial and USB data leads  
4- & 8-way programming pods

## TETRA DATASHEET

9000 SERIES

# STP9200

## HAND-PORTABLE



The STP9200 is the entry-level TETRA radio which offers the essential features that a user requires: powerful audio and RF, extreme ruggedness and simplicity of use. With an IP67 rating, this is truly a “go anywhere” radio; waterproof, submersible, dust-proof and marine-hardened.

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Going further in critical communications

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.

5 – ‘Connector protector’ must be enabled in customisation. An antenna, a battery and either an accessory or the STP9000 series RAC cover must be fitted. Lightly rinse in fresh water after salt exposure to prevent salt crystal build-up.

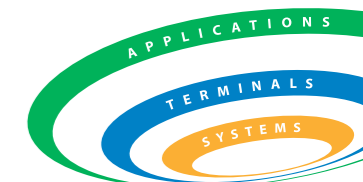
6 – Through use of Sepura pseudo-keypad. Chinese text entry not supported.

7 – Selectable from phonebook or incoming call list.

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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# STP9200 is a rugged TETRA HAND-PORTABLE

HAND-PORTABLE

9000 SERIES

## EMERGENCY OPERATION

Easy to activate and with a "wake-on-alarm" feature, the emergency key enhances user safety and facilitates ease of use, even via blind-finding.

## SMA ANTENNA CONNECTOR

Delivers 1.8 watts of RF power in TMO, DMO and repeater modes. Increases range, thus extending network and direct mode coverage.

## MISSED EVENT INDICATOR

A blue LED indicates that a call / message has been missed.

## SUNLIGHT-VISIBLE DISPLAY

Featuring an enhanced user interface, which offers three presentation styles to suit user preferences. Dual illumination technology ensures screen clarity under all light conditions.

## RUGGED ACCESSORY CONNECTOR

Ensures a reliable connection with a wide range of audio accessories

## ERGONOMIC KEYPAD

Large, well-spaced keys, which allows simplicity of operation.

## POWERFUL AUDIO

Large loudspeaker delivers outstanding half-duplex audio.

## MAN-DOWN PERSONAL SAFETY

Multi-dimensional motion sensing technology automatically provides Man-Down detection and reporting option.

## BOTTOM CONNECTOR

Featuring connector protector™ technology to provide protection from salt water and salt fog.

## NAVI-KNOB™ OPERATION

In combination with the mode key, provides quick access to talkgroups, volume adjustments, user profile selection and status messaging.

## RFID TAG

Facilitates access control solutions, tracking of pool-issued radios and potential for integration with back-end systems.

## LARGE TACTILE PRESS-TO-TALK KEY

Large and glove-friendly, located on the side of the radio.

## PRODUCT DESIGN

The STP9200 leverages the tough technology developed for Sepura's STP8X Intrinsically-Safe series to deliver a market-leading IP67 package, proven to perform in the most demanding operational environments.



› **Robust, 'tough technology'** inherited from state-of-the-art development for the STP8X ATEX/IECEX radio

› **Market-leading IP67** (submersible, waterproof and dustproof) rating

› High power RF and audio, with **improved full-duplex audio capability**

› Intuitive, enhanced UI, with **3 presentation styles** (Grid, List and Compatibility)

› **Integral RFID tag** allows rapid asset tracking of pool-issued radios

› **Automatic Man-Down** reporting option

› **Wake-On-Alarm** activation

› **End-to-End encryption** option

› **DMO Repeater ready** (frequency efficient Type 1A option) with Call Participation

› A wide range of **market-leading accessories** designed for a wide range of public safety, industrial and other users

› Supported by Sepura's market-leading software tools, including **Radio Manager 2** which helps organisations to lower cost of ownership by making fleet re-programming easier

Focused on offering new functional possibilities and removing obstacles to efficient and effective operation, the STP9200 offers a range of benefits that make it more **Reliable, Robust and Secure.**



Designed for users who require a tough and powerful TETRA radio, which offers the essential features at a competitive price point.



**Robustness** – The STP9200 boasts an IP67 (submersible, waterproof and dustproof) environmental protection rating, which means that it will still function after having been submerged in up to 1m of water for up to 30 minutes. In addition, new Connector Protector technology provides **marine-hardened protection** against the corrosive damage that salt water and salt fog can cause to exposed connectors.

**Reduced cost of ownership** – The STP9200 is compatible not only with all audio accessories, batteries and chargers from Sepura's STP8000 hand-portable range, but also with its market-leading Radio Manager 2 fleet management tool and CMC encryption management suite - all factors which help organisations to maximise the value of existing investment.

**Improved ease of use** – The STP9200 provides a reduced keypad and an enhanced user interface, which offers three different presentation styles, which users can select according to their personal preference.

- Compatibility mode allows existing Sepura users to be immediately familiar with the STP9200.

- Grid and List modes will appear familiar to new users who may be accustomed to user interfaces on smartphones or other GSM devices.

Together, the presentation styles mean that organisations, whether existing Sepura users or new users, **will minimise training costs.**

**Operational efficiency** – Innovative hardware design blocks out background noise, whilst advanced audio equalisation technology provides a **superior full-duplex audio experience.**

**Resource and information management** – Tracking radios, particularly in a pooled system, can be difficult, so the STP9200's **built-in RFID tag** will be of considerable benefit to many users.

**Enhanced user safety** – The STP9200 offers enhanced GPS and a Man-Down feature which features multi-dimensional sensing technology. In addition, the Wake On Alarm feature enables the STP9200 to be switched on and make an emergency call simply by pressing the emergency button.

**Smart Technology** – Sepura has provided a host of "smart" features which allow organisations to maximise their efficiency and enhance their operations. These include Short Data Applications, which allow the user to simply and intelligently interact with a backend IT system. Built and deployed on Radio Manager 2, SDAs allow the automation of work flows, job allocation and remote control capabilities. They also allow the user to rapidly access a remote database. SDAs have been demonstrated to improve the effectiveness of users, saving organisation valuable time and money.