

# 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

### 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  
(-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 & water protection IP67 (submersible, waterproof and dustproof)  
Shock, drop & vibration ETS 300 019  
Salt fog: MIL810E 509.4<sup>1</sup>; 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  
Wide range of languages & keymats  
Man-Down alarm<sup>3</sup>  
Smartcard Support

### 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, pre programmed (user can overwrite):  
32 bit unique identifier  
Serial number  
Hardware code  
TE  
Passive Technology

### DISPLAY AND USER INTERFACE

Active LCD area 37mm x 19 mm, with 128 x 64 resolution  
High visibility monochrome display  
Call history  
8 configurable soft 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  
DTMF dialling from address book  
Ambiance listening  
Privacy Mode  
Whisper Mode  
Group Focus

### 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  
DMO group call  
DMO emergency call  
DMO intelligent emergency call  
Independent volume control  
Enhanced full duplex ear sealing

### 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

### 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 'predicted ephemeris'

### SECURITY SERVICES

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

### DMO REPEATER SERVICES (LICENCE REQUIRED)

DMO voice repeated  
DMO tone signaling 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  
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 car kit  
Serial and USB data leads  
4- & 8-way programming pods  
Basic car kit

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

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.





# STP9200

## HAND-PORTABLE

The STP9200 is a key element of Sepura's flagship STP9000 series. It is an entry-level TETRA radio which offers the essential features that users require; extreme ruggedness, powerful audio and RF, marine hardening and simplicity of use.

### ROBUST

**Waterproof, submersible, dust-proof and marine-hardened**, the STP9200 has the design and construction values that enable it to withstand the most harsh and challenging environments. Its **IP67 environmental protection rating** and Connector Protector technology, to counter the potential corrosive damage from salt water and salt fog, mean that the STP9200 can be used in a huge range of wet, salt-laden and dusty environments.

### EASY TO USE

The STP9200 provides an enhanced user interface, uniquely offering **three different presentation styles**, which users can select according to their personal preference, thus reducing training costs and improving choice. The reduced keypad on this model also helps simplify operation.

### OPERATIONAL EFFICIENCY

The innovative hardware design of the STP9200 blocks out background noise, whilst its enhanced audio equalisation technology provides a radically **enhanced full-duplex telephony audio** experience.

# The **STP9200** is a rugged TETRA hand-portable

## EMERGENCY OPERATION

Easy to activate and with a "wake-on-alarm" feature, the emergency key enhances user safety.

## 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 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.

## BOTTOM CONNECTOR

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

## 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.

## MAN-DOWN PERSONAL SAFETY

Multi-dimensional motion sensing technology automatically provides man-down detection and reporting option.

## SUNLIGHT-VISIBLE DISPLAY

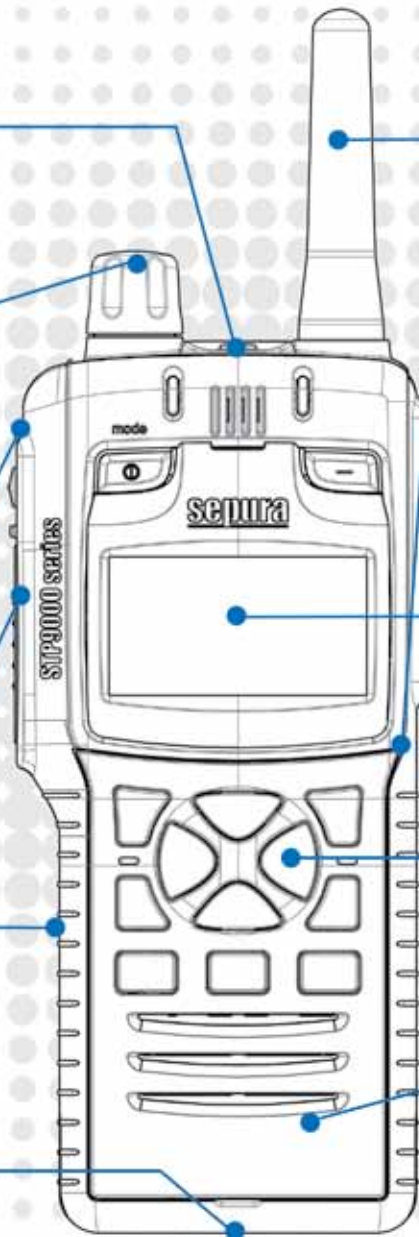
Featuring an enhanced user interface, which offers three presentation styles to suit user preferences.

## ERGONOMIC KEYPAD

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

## POWERFUL AUDIO

Large loudspeaker delivers outstanding half-duplex audio.



TOUGH • HIGH PERFORMANCE • VALUE-LED



Product is not actual size

## STP9200 HAND-PORTABLE:

- Robust, 'tough technology' inherited from state-of-the-art development for the STP8X ATEX/IECEX
- 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
- Supported by Sepura's market-leading software tools, including Radio Manager 2.

The STP9200 takes the entry level TETRA hand-portable market into a new league. Designed to offer essential functionality coupled with extremely robust hardware, it meets a truly wide range of the requirements which reflect the ever-increasing demands and requirements of users worldwide. The new features, coupled with the new styling, also give the STP9200 a highly contemporary look and feel.

Focussed 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:**

**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.

**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.**

**Enhanced user safety** – In addition to the Man-Down feature and enhanced GPS, the **Wake-On-Alarm** feature, which enables the STP9200 to be switched on and make an emergency call by pressing the emergency button also helps to protect users.

**Resource and information management** – Tracking radios, particularly in a pooled system, can be difficult, so the STP9000's **built-in RFID tag** will be of considerable benefit to many users.

**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.

