



**Digital Audio Personal
Protection System
APSS 2000-k 120 100 0001**

Miniature Transceiver Systems - Audio - 120



Digital Audio Personal Protection System APSS 2000-k

Description

The APSS 2000-k is a new personal protection and receiver system constructed using SMD technology for the VHF-BOS band. The APSS 2000-k works in both "clear" (narrow-band FM) mode and in crypto mode. In the latter mode data transmission is achieved with a data rate of 40 kBit/sec.

The APSTX 2301 transmitter is fitted with a frequency synthesizer and allows manual frequency adjustment in 10 kHz steps via miniature DIL switch. A socket for an external microphone is provided. The receiver unit consists of a high-quality scanner/receiver with an add-on decoder board.

If required, existing receivers can be retrofitted (MVT 7200, AR 3000A, AR 5000).

Technical Data

Transmitter - APSTX 2301 (Model No.: 120 200 0002)

Frequency Range:	165 MHz to 174 MHz (VHF-BOS Band) Frequency manually adjustable using a DIL switch in 10 kHz steps (adjustable frequency range +/- 2 MHz from the main operating frequency)
Mode of Operation:	NFM clear encrypted mode
Audio Codec:	A/D converter with Sigma-Delta modulation; 40 kBit/sec.
Antenna Connection:	50 Ω - SSMB
Transmission Power:	100 mW/500 mW manually switch able
Power Supply:	9 V DC
Power Consumption:	max. 200 mA in high power/encrypted mode
Dimensions:	38 x 4 x 78 mm

Option: Transmitter – APSTX 2302 PS (Model No.: 120 200 0018).It has an integrated alarm generator. Using a remote emergency call button an alarm signal is superimposed on the audio signal.

Technical Data

Receiver/Decoder APSRX (Model No.: 120 200 0003)

Receiver:	Scanner/receiver (actual type including refitted decoder)
Frequency Range:	165 MHz to 174 MHz (VHF-BOS band)
Mode of Operation:	NFM clear decrypted mode
Audio Codec:	D/A converter 40 kBit/sec.
Antenna Connection:	Telescopic antenna - BNC
Outputs:	Headphone output $\geq 32 \Omega$ Recorder output
Power Supply:	6 V, via scanner battery or external 12V DC
Power Consumption:	max. 195 mA

Scope of Delivery:

- Transmitter APSTX 2301
- Power supply cable, type I
- Plug-in antenna for APSTX 2301
- Receiver APSRX
- Plug-in battery charger/PSU for the APSRX
- Telescopic antenna for the APSRX
- Recorder interface cable
- System container
- Operating instructions

For APSTX 2302 PS (Model No.: 120 200 0018)

- System connector, Type PS with emergency button

NOTE: Concerning the switching on/off of the transmitters APSTX 2301 and APSTX 2302 PS, the digital remote control RC-APSS (Model No.:150 100 0006) will be available.

Accessories for APSS 2000-k

Model No.:	<u>Description:</u>
160 100 0025	plug-in antenna SSMB
160 100 0015	antenna with magnetic slide coupling (antenna 2 m/70 cm BNC)
110 400 0002	receiving amplifier PA 21
850 100 0004	retrofit decoder for existing receivers
790 100 0003	miniature electret microphone
740 100 0014	vehicle PSU for APSTX
760 100 0005	system connector APSTX
760 100 0012	system connector APSTX/PS
740 100 0012	power supply cable APSS, type I
740 100 0013	power supply cable APSS, type II
120 200 0040	power amplifier PA 2 m
760 100 0006	HF-connecting cable APSTX – PA 2 m
150 100 0006	Digital Remote Control RC-APSS



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