

Portable Radio Station P50EX

PRIVATE RADIO SYSTEMS

General User's Manual

ERICSSON 

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GENERAL ABOUT P50EX

The P50EX is a portable radio station, specially designed for users who work with highly inflammable and explosive goods. Examples of such working sites are oil rigs, refineries, containers which have recently held inflammable liquids, and premises where explosive gas has leaked and smoke-helmeted firemen must go in. Despite the extremely tough demands that must be made on a radio station designed for such “explosive” surroundings, the P50EX is capable of transmitting with an output power of up to 4 W.

Thanks to its rugged design, the P50EX station is very resistant to external influences such as cold, heat, damp and moisture, blows and shock. Basic operation only involves four big buttons, so the station is easy to operate even if the user has to wear heavy protective gloves.

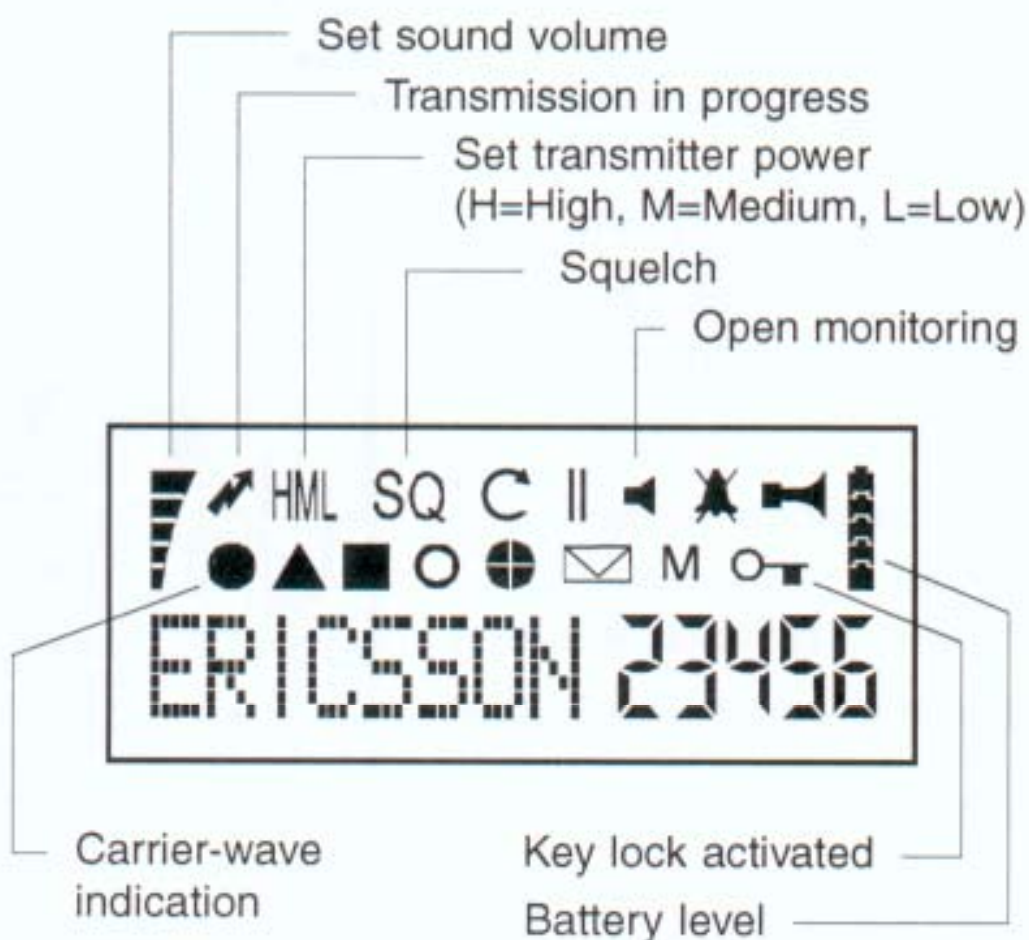
The P50EX is primarily intended for direct radio communication between persons who take part in, for example, rescue work. As many as 100 abbreviated numbers can be used to call individual stations or groups of stations. It is also possible to communicate in “open monitoring” mode.

Each P50EX station is programmed individually according to the specific user’s requirements. As a consequence, this manual does not describe the specific programming and use of individual stations. Only basic operation is described.

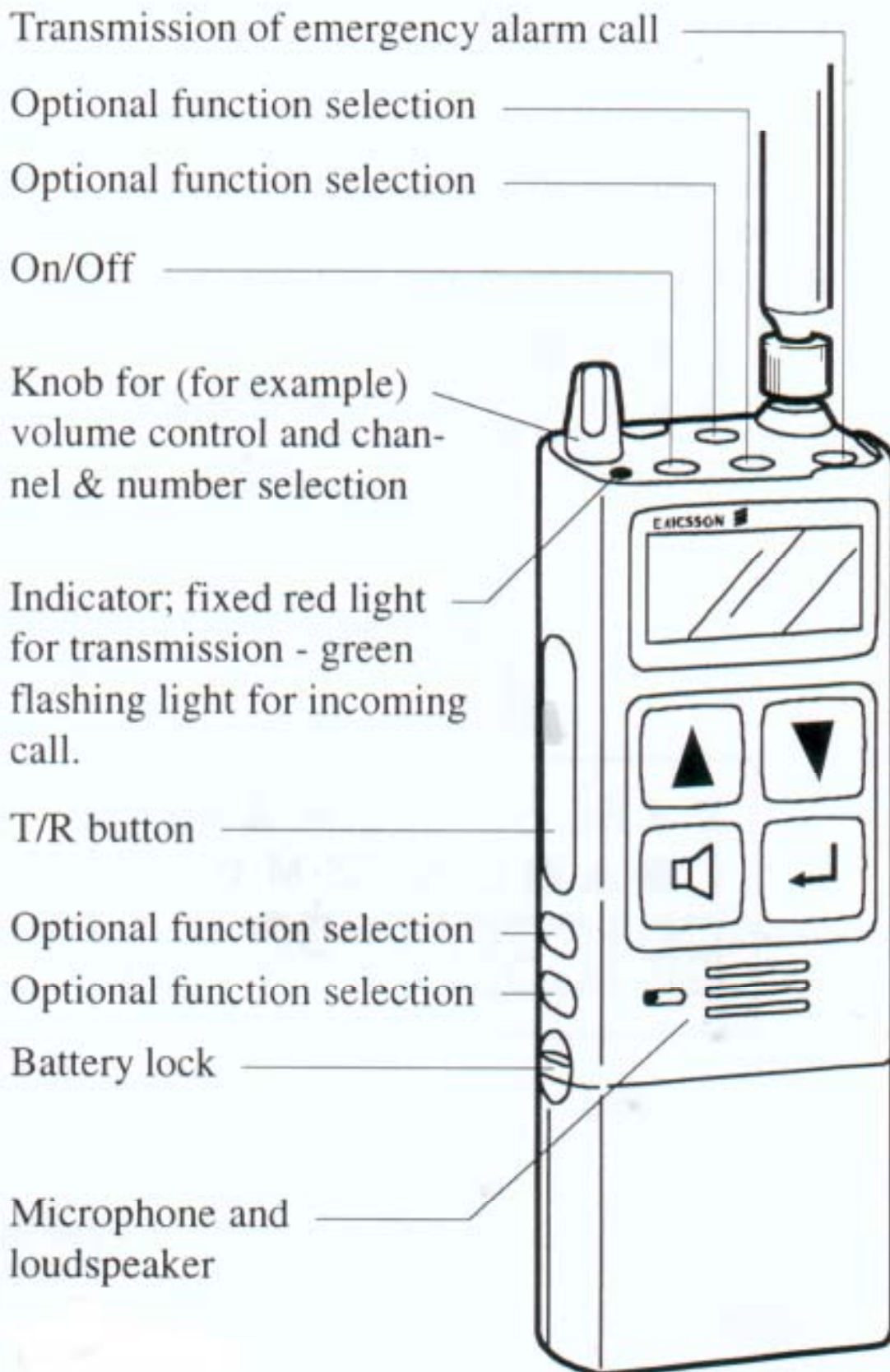
DISPLAY

The figure below shows all symbols that can be presented on the two top lines of the display. Several of these symbols are reserved for future use.




The bottom line text is just an example of possible display text in a station. All in all, this line may hold 13 characters, 8 of them alphanumeric.



BUTTONS AND KEYS



Since some buttons may be assigned functions according to individual requirements, the figure to the left should only be seen as an example of a programmed station.

-  Selection of call number/function according to the information on the bottom display line
-  "Open monitoring" on/off
-  Activation of selected function

MAIN MENU

When your P50EX station is in stand-by mode, the display shows a main menu, e.g. the one in the example on page 5.

INCOMING CALL

At an incoming individual call, press the T/R button and answer the call. At an incoming group call, the voice of the calling party will be heard in the loudspeaker right away. If you are requested to answer the call, press the T/R button and answer.

The station's microphone and loudspeaker are situated beside each other immediately below the four big buttons, so you should hold the station 10 to 15 cm from your mouth when speaking.

OUTGOING CALL

To call another station, you must first select channel or subscriber group with the arrow keys and confirm the selection by pressing \leftarrow . Then select an individual station or group of stations with the arrow keys or the knob. Confirm your selection and activate the call by pressing \leftarrow . Press and hold the T/R button when you speak. If your station is in open monitoring mode, you only have to press the T/R button to communicate with the other party.

Battery charging

GENERAL

At factory delivery, the charger is set for battery charging with the station switched off. A battery may also be charged separately, i.e. removed from the station.

Charging should be done in normal room temperature. Avoid charging in direct sunlight. A fully charged battery may be left in the charger without being damaged.

CHARGING

1. Connect the charger to 230 V mains.
2. Put the station (or the detached battery) in the charger holder. The red lamp and the green lamp on the charger both light up.
3. After 1.5 - 2 hours, the battery is fully charged and the red lamp goes out.

CHARGER SWITCH

On the bottom side of the charger, there is a switch, marked 1, which should normally be in the position OFF (switch 2 is not used). The charger will then deliver only enough charging current to charge a separate battery or a battery mounted on a station which is turned off (see above). If the station is on during the charging, it will consume more battery power than the charger can compensate for, and the battery will slowly be emptied.

This means that if, for some reason, you want the station turned on during the charging process, you must set switch 1 to ON; the charger will then deliver a higher charging current. Note, however, that this higher current may damage the battery if the station is not turned on and then left in the charger when the battery is fully charged.

BATTERY INDICATIONS

The station is normally programmed to indicate the battery level by means of a vertical bar in the right-hand part of the display (see figure on page 5). The higher the bar, the more battery capacity remains. If possible, avoid charging a battery before it is completely empty, i.e. before the battery level symbol has disappeared completely.

If the battery level goes so low that the station will soon be unusable, the station will emit a beep sound and display the text *Low Batt*. Finish the call in progress and install a fully charged battery.

If the text *Tx Block* is displayed and the beep signal heard, the battery level is so low that you can only receive a short message but not transmit anything. Change to a new battery immediately.

If, due to low battery capacity, communication is no longer possible, the text *Batt Off* is displayed and the station switched off automatically.