

STATEMENT OF INTENDED USE

The radio paging receivers represented in this application are intended to be used by a broad sector of the public to receive messages or an indication of a message and are to be worn on the belt by the user.

PRODUCT SPECIFICATION

Dokument nr. - Document no.		
155 02 - CRHNA 108 100		
Datum - Date	Rev.	Archief - File
94-11-02	C	/CX_DOCS/

5 USER INTERFACES

Reset knob	2 in 1 knob Push button: 13.4 x 14.8 mm Slide knob: 1.4 x 3.4 mm
Silent indication Display	Red area within slide switch STN, 8 kar. alfa num., 5 x 7 dots, 3 annunciators (battery ok, new message, long message)
Viewing area	4.8 x 19 mm
Beeper loudness	80 dBA @ 30 cm, 2727 Hz 74 dBA @ 30 cm (soft position)
Loudspeaker size	34 mm diameter
Loudspeaker loudn.	80 dBA @ (1 kHz, 30 cm), 12dB Sinad 74 dBA @ (1 kHz, 30 cm)
Beeper on time:	
One beep	167.5 msec
One beep cycle	1340 msec (12.5% duty)
Max. cadence	5359 msec (4 beep cycles) (resetable after first beep)
LED on time:	
One flash	167.5 msec
One flash cycle	1340 msec (12.5% duty)
Max. cadence	5359 msec (NOT resetable)
"Batt. Low" LED on time:	
One flash	167.5 msec
Flash cycle	5359 msec (3% duty)
Loudsp. on time	45 sec

6 RECEIVER RACK INTERFACE

Contacts	3 pins (Batt. charge/Prog. control, Code/Absence, Ground)
Programming mode	Prog. Control pin = - 8 Volt DC
Programming OK	Code/Absence pin = 1900 Hz / 34 msec output signal Beeper gives 3 beeps
Absence	Code/Absence pin = 1900 Hz / 34 msec output signal
Positioning	CX receiver rack insert
Fixation	One fixed notch in the insert and one manually moveable notch in the receiver rack

7 UNIT PACKAGE

Dimensions	165 x 120 x 42 mm
Material exterior	Cardboard
Color exterior	White
Printing exterior	Nothing (The receiver and its brandname is visible through a hole in the front of the exterior box)
Material interior	Cardboard with a transparant membrane foil

Ericsson Radio Systems

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2 SUPPLY POWER

Batteries/Accu's	2 x AAA
Batt. life:	
LF	84 wkn @ (3 call/dy, cs 2, 100 rec/sys)
HF non-speech	44 wkn @ (3 call/dy, cs 2, 100 rec/sys)
HF speech	40 wkn @ (3 call/dy, cs 2, 100 rec/sys)
UHF non-speech	28 wkn @ (3 call/dy, cs 2, 100 rec/sys)
UHF	26 wkn @ (3 call/dy, cs 2, 100 rec/sys)
Accu life	1 week @ (3 call/dy, cs 2, 100 rec/sys)
Battery low level	2.2 Volt, after "Batt low" indication still 24 hrs useable
Power down level	1.8 Volt
Batt back-up	1 min (only for language setting, standby message and received messages, other information is stored in EEPROM)

3 RADIO

	LF	HF	UHF
Radio Frequencies	24 - 40 kHz	25 - 50 MHz	410 - 470 MHz
Channel spacing	2.89kHz	10/12.5/25 kHz	12.5/20/25 kHz
Intermediate freq.	455 kHz	455 kHz	21.4 MHz / 455 kHz
Sensitivity	10 uA/m	20 (spch 40) uV/m	20 (spch 40) uV/m
Selectivity	>6 dB @ ±3 kHz >55 dB @ ±9 kHz	>50 dB (60dB Fr)	>60 dB
Spurious suppr.		>50 dB	>60 dB ¹
Co-channel suppr.	2 dB typ	>11 dB	>11 dB
Intermodulation		>50 dB	>50dB
Spurious emission	< 2nW	<2nW	<2nW
Speech bandwidth		300 - 3400 Hz	300 - 3400 Hz

¹ image rejection with an optional SAW filter

4 LOGIC

Baudrate	238.7 bit/sec (T = 4.19 msec)
Modulation	F1D (FSK for data), F3E (FM for speech)
Sampling time	0.45, 1.5, 2.85 or 5.5 sec
Dec. EEPROM mem.	System nr, A address, B address, Current save mode, BLD level selection, BLD trimming, Bypass Limiter, Bypass FSK demodulator, Sync word selection, PSS mode selection.
MicroController clock	400 kHz (fast), 32 kHz (slow)