Programming Guide



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1. General comment

With this programming and servicing device you can read and programme the DV500 family of pagers. These options are summarised in a programming set.

1.1 Programming set

This set is available as SWISSPHONE - Art. No. 0951 461.

PROGR. SET for DV500	SW Art. No. 0951 461
Set comprises: Programmer PGM300/429	SW Art. No. 0951 450
RS232 Connecting cable	SW Art. No. 0240 130
DV500 Hurricane programming software	SW Art. No. 0991 865
DV500 Programming instructions	SW Art. No. 0343 285

What can be done with the programming set for the DV500:

- * Read, change and programme DV500 functions
- * Select software and hardware configurations
- * Save device configurations and programming parameters to files
- * Generate messages
- * Test stored sound patterns and vocabulary

1.2 Program architecture

In order to run the program, you need to have installed the following components:



DV500 HURRICANE voice



1.3 PC system requirements

- Pentium II 200MHz or higher
- 32 Mbyte RAM
- WIN95, WIN98, ME
- Mouse: recommended

1.4 Programming hints

- The programming must take place with a current source appliaed to the DV500.
- Correctly programme the PC PORT used or set it with the programming software.

1.5 Installing the software

Copy the file PSW_DV 500 to a new directory, e.g. called PSW_DV500. Select the icon from the PSW_DV 500.exe file and drag it to your Desktop (create a shortcut). Now you can start the software by double-clicking the file name or directly from the desktop.

Now you see the following screen displayed:

Regramming Software DV500 Demo-version	
rie Settings Info	ad and a file loaded
HF specification	Identification
Channel space 20 / 25 🔽 (kHz)	Controller Version
HF Band UHF G/H 450470	Initial Version
	Device number
Reception frequency MHz	Order No.
Language German male	Benair number
	User information
Hardware options	Pager type
Vibrator	Tone only
Nickel-metal hydrid	
C Nickel-cadmium	11500 mAh
	Read page
Hardware System Address Lexicon Handling File Info	

The demonstration version permits you to view all the programming functions but you cannot programme the pager, store data on any medium or print with it. If you would like to start the programming version, click the button with the padlock symbol and the software generates a CODE from your computer.

🧱 License								×
Code:	0907	6A16	481D	4267	[â	Unlock	
Key:]		<u>Î</u>	Close	

Transfer this code to the "Password request" form and communicate it to SWISS-PHONE. SWISSPHONE will let you have the password for your programming PC, which you then enter into the "Key" [*Schlüssel*] box. The software can now be used as a programming version.

Also, once you have done this, you can start up the programming version by doubleclicking on the file "PSW_DV 500_xx" or directly by double-clicking the shortcut on the Windows desktop.

Note: If you want to install on another computer, you will require a new password.

2 Programming parameters

2.1 Menu bar

The menu bar, contains 3 main menus with submenus as they are also called in Windows.



2.1.1 File

- <u>O</u> pen [Ö]	Ctrl + O	Open file
- <u>S</u> ave	Ctrl + S	Save the programming in a file
- Save as		Save the programming in a new file
 Printer setup 		Printer and port setup
- <u>P</u> rint [D]	Ctrl + P	Print the program
- Exit	Alt + X	End the program

The lower part shows the latest files used including the path. The files can be loaded directly from there.

2.1.2 Settings

- <u>C</u>OM Port
- <u>L</u>anguage [S]
- Default directory
- Change Licence

2.1.3 <u>I</u>nfo

Information on the manufacturer and version

choose any port from COM1 to COM4 choose between German [D] and English

2.2 Toolbar

Image: Sync in the loaded Image: Sync in the loaded	
---	--

The 4 symbols on the toolbar represent the following functions:

•	
•=	

- Read data	As function Ctrl + R
- Save file	As function Ctrl + S
- Open file	As function Ctrl + O

- Print file As function Ctrl + P
- 3 Programming windows

The programming software offers 7 programming windows: hardware, system, addresses, lexica, operation, file information and servicing (only in the case of service software)

4 Hardware

🧱 Programn	ning Software DV	500			
<u>File</u> <u>S</u> ettings	s <u>I</u> nfo				
<u>+</u>	<u> </u>	Reset Sync Com 1; 38	400 Baud C:\Progsoft\PS\	%500\Programming USA.500	
	HE specification-		dentification		
		20.7.25 🔽 (kH=)	Tuchtine dubin		
	channel space	20723 [7] (KH2)	Controller Version	00.00	
ŀ	HF Band	2m UB 164174	Initial Version	11	
			Device number	0001	
F	Reception frequency	172.68000 MHz	Order No.	104.703	
			Serial number	C200220.02649	
L	Language	English male UK	Repair number	000.000	
			11 · · · · ·		
			User information		
			I estpager for Werni		
_	Hardware options		- Pager tupe		
	Vibrator		Alpha	▼	
/	Accumulator type		Battery capacity		
	 Nickel-metal hyd Nickel-cadmium 	drid 1′500 🕂 mAh	1'600 🖃 mAh		
					1
				Head page	Write page
Hardware [System Address	Lexicon Handling File Info			

The "hardware" window provides information about the HF specification, identification, hardware options, pager type, battery capacity and accumulator type.

HF specification:

Modulation	PM / FM
Channel spacing	12.5 or 20/25 KHz
HF band	Frequency range (e.g. 164-174 MHz), within this band the pager can be requartzed and retuned.
Reception frequency	If this changes, the hardware (new quartz) also has to be changed and the pager retuned.
	<i>Note:</i> If changes are made in these fields, the software warns about the necessary hardware changes.
Identification:	
Controller version	Indicates the microprocessor version
Initial version	Details of the version
	of the initialising data
Device No.	Manufacturer's internal data

Order No. Serial No.	Manufacturer's internal data Serial number of the pager, identical with the serial num- ber on the model tag
Repair number User information	7-digit number that can be used for repair numbers 20 characters available e.g. to write the name of the owner or other information and to store it in the pager.
Hardware options: Vibrator	Information as to whether vibrator is built in or not.
	<i>Note:</i> If changes are made in these fields, the software warns about the necessary hardware changes.
Pager type	Information on the type of pager
Accumulator type	Information on the type and capacity of the accumulator
Battery capacity	Information on the battery capacity

5 <u>System</u>

Field strength / network:

Supervision activeAntenna symbol	Field strength monitor is actively programmed With or without reception
Criterion	
- Synchronisation code word	The field strength monitor reacts to the synchronisation code word
- RIC + sub-address	The field strength monitor reacts to a defined RIC sub-address

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🔜 Programming Software DV500		X
<u>File S</u> ettings <u>I</u> nfo		
🔒 🔒 🚘 🖨 🔗 Reset Sync 🗔	m 1; 38400 Baud	gramming USA.500
Field strength / Network	1	Call suppresion
Field strength supervision:	Field strength alarm:	Off
Antenna symbol when:	Alarm type:	
C Reception	C Off	
No reception	C Vibrator	
	Vibrator and Beeper	
Criterion: Codeword 💌	Time to alarm (m:s) 04 - 00	
Time to warning (m,s) $\overline{04}$: 15		
Time to warning (ints) [of .] io		
Character set		
	Own si	ign 🛛
Defined sign	Sign:	Decimal value:
# \$ @ [\] ^ _ ` {	I } ~ SP SP SP	32 32 32 Input
٤ \$ @ SP \ SP ^ _ ` S	P I SP - SP SP SP	32 32 32 Output
SP = Spa	се	
		Read page Write page
Hardware System Address Lexicon Handling File	e Info	

Delay times:

Time to warning	Time can be set between 0 min, 0.5 sec. and 34 min, 7 sec. Function: The antenna symbol appears when the set time on the LCD display runs out
Time to alarm	Time can be set between 0 min, 0.5 sec. and 34 min, 7 sec. Function: When the set time runs out, a warning peep sounds and the antenna symbol begins to blink.
Call suppression:	Suppression of the alarm on the previously received address within the selected time (see table) – when "none " is selected, there is no call suppression.
Field strength control:	There is a choice Field strength alarm "Off" or sig- nalisation by vibrator or by vibrator and beeper.

6 Address

The address characteristics are defined in the "address" window.

By clicking on a field, in the overview mask, the relevant entry box for changing the parameters appears above the overview.

Pr	ogramm	ing S	oftwar	e DV5	500										l	_ 🗆
;	<u>S</u> ettings	<u>I</u> nfo														
·	•8	🗃 🛛		3 _	Reset		Sync Com 1; 38400 Baud	C:\Progsol	ft\PSW500\Pro	ogram	nming	USA.	500			
P	reset mes	sage:												Baudra © 240 © 120 © 512	te 10 Bau 10 Bau 1 Baud	d d
Γ	Fest alert															
Â	t the end	of the	fix-text r	messac	је, а р	ause	of 0.5 seconds is automatically fi	lled in.								
'n	BIC	Sub	Type	Arrou	BrlSw	Ch	Preset message			АМ	LED	Ben	SA	ISALG	Prio	
1	500	A	Alpha	1		X	Alert			2	1	2	X			
	500	В	Alpha	2		Х	Rediness			3	1	5			Х	
	500	С	Alpha	3		Х	Call back			4	1	5				
	500	D	Alpha	4		Х	Test alert			1	1	2				
	0	•	Aleka	1						2	1	E				
-	0	A	Alpha	2	_	0				2	1	5			0	
-	0	C	Alpha	2		÷				2	1	5			^	
	0	D	Alpha	4		÷				2	1	5				
_	0		мрпа	4		0				2	-	5				
-	n	Δ	Alpha	1		x				2	1	5			x	
	n n	B	Alpha	2		X				2	1	5			X	
-	n n	C	Alpha	3		X				2	1	5				
	0	D	Alpha	4		X				2	1	5				
-	-	-	- npario	· ·		<u> </u>				-	· ·	-				T
																_

6.1 En

- X address actively programmed
- address not actively programmed

J	RIC sw	itched	<u>ION</u>										Baud C 2 C 1 C 5	Irate 400 B 200 B 12 Ba	aud aud ud	
En	RIC	Sub	Туре	Arrou	Br	Sw	Ch	Preset message	AM	LED	Rep.	SA	SA LG	Prio	Step	
X	500	А	Alpha	1			Х	Rediness	2	1	5			Х		
Х	500	В	Alpha	2			Х	Alert	3	1	5			Х		
X	500	С	Alpha	3			Х	Call back	4	1	5					

6.2 RIC

Define the call address (loop). Sub-addresses A,B,C,D can be activated or deactivated in "En". Valid RIC addresses are 0 - 2097152.

	RIC: 300												Baud C 2 C 1: C 5	rate 400 B 200 B 12 Ba	aud uud
En	RIC	Sub	Туре	Arrov	Br	Sw	Ch	Preset message	АМ	LED	Rep.	SA	SA LG	Prio	Step 🔺
En X	RIC 500	Sub A	Type Alpha	Arrov 1	Br	Sw	Ch X	Preset message Rediness	<u>АМ</u> 2	LED	Rep. 5	SA	SA LG	Prio X	Step 🔺
En X X	RIC 500 500	Sub A B	<u>Type</u> Alpha Alpha	Arrov 1 2	Br	Sw	Ch X X	Preset message Rediness Alert	АМ 2 3	LED 1	<u>Rep.</u> 5 5	SA	SA LG	Prio X X	Step 🔺

6.3 **Type**

Each of the sub-addresses must be selected from the three different types: tone only, numeric or alphanumeric.

	Alphanum Alphanumr Tone only Numeric	meris neris	ch 🔽										Baud ○ 2- ○ 1: ○ 5 ⁻	rate 400 B 200 B 12 Ba	aud aud ud	
En	RIC	Sub	Туре	Arrou	Br	Sw	Ch	Preset message	AM	LED	Rep.	SA	SA LG	Prio	Step	키
X	500	А	Alpha	1			Х	Rediness	2	1	5			Х		
X	500	В	Alpha	2			Х	Alert	3	1	5			Х		
X	500	С	Alpha	3			Х	Call back	4	1	5					

6.4 Arrow

Each of the arrows in the display must be assigned to a sub-address.

	Arrow		• •										Bauc ○ 2 ○ 1 ○ 5	drate 200 B 200 B i12 Ba	}aud }aud aud	
Er	RIC	Sub	Туре	Arrou	Br	Sw	Ch	Preset message	AM	LED	Rep.	SA	SALG	Prio	Step	<u> </u>
Er X	RIC 500	<u>Sub</u>	Type Alpha	Arrov 1	Br	Sw	Ch X	Preset message Rediness	AM 2	LED	Rep.	SA	SA LG	Prio ×	Step	•
Er X	RIC 500 500	<u>Sub</u> A B	Type Alpha Alpha	Arrov 1 2	Br	Sw	Ch X X	Preset message Rediness Alert	АМ 2 3	LED 1 1	<u>Rep.</u> 5	SA	SA LG	Prio × ×	Step -	<u> </u>

- 6.5 Br reserved for future applications
- 6.6 Sw reserved for future applications

6.7 Ch reception in charger

Defines that the pager is ready to receive also when in the charger.

	✓ Recept	tion in	charge	3									Baud C 2 C 1 C 5	lrate 400 B 200 B 12 Ba	aud aud aud	
En	RIC	Sub	Туре	Arrov	Br	Sw	Ch	Preset message	AM	LED	Rep.	SA	SA LG	Prio	Step	•
En X	RIC 500	Sub	<u>Type</u> Alpha	Arrov 1	Br	Sw	<u>Ch</u> X	Preset message Rediness	<u>АМ</u> 2	LED	Rep.	SA	SA LG	Prio X	Step	•
En X	RIC 500 500	Sub A B	Type Alpha Alpha	Arrov 1 2	Br	Sw	Ch X X	Preset message Rediness Alert	АМ 2 3	LED 1 1	<u>Вер.</u> 5	SA	SALG	Prio X X	Step	<u> </u>

6.8 Preset message

A preset message of maximum length 240 characters can be assigned to each subaddress.

Pre AL	set messa	ige:				_									
		u c						CO E secondo in antese sincello Clinitia							
<u>е</u> г г	ne ena or	I'ne riv-	revr me	222 B C (a a	nar	128 0	r Li o seconds is all'iomaticalli filled in							
		01010		issayı	c, a	pat	use o	r o.o seconds is automatically filled in.							
En	RIC	Sub	Туре	Arrov	Br	Sw	v Ch	Preset message	AM	LED	Rep.	SA	SALG	Prio	Step -
En X	RIC 500	Sub	Type Alpha	Arrov 1	Br	Sw	v <u>Ch</u> X	Preset message Rediness	<u>АМ</u> 2	LED	Rep. 5	SA	SA LG	Prio X	Step /
En X	RIC 500 500	Sub A B	Type Alpha Alpha	Arrov 1 2	Br	Sw	V Ch X X	Preset message Rediness Alert	АМ 2 3	LED 1	<u>Вер.</u> 5 5	SA	SA LG	Prio X X	Step -

6.9 AM alarm sequence

Four different alarm sequences (1,2,3,4,) can be defined where the letters A, B and C represent the related frequencies with a length of 0.125 seconds each. The programmed sequence – comprising 8 letters and/or pauses " -" (hyphen) represents a duration of one second and is repeated as often as is defined under "Rep". Vibrator sequences apply to all RICs and the duration is 0.125 sec. per digit, the same as with the alarm sequence. The number of repetitions is defined as under "Rep".

	Alarm p 1 2 3 4 Alarm p	oattern LAAAA LAAAB LABBA LABBA LABC A Datter [AAA BBB ABB BC	Tone Tone Tone	• A:[• B:[• C:[607 800 1004	Hz Hz Hz	Help For all RIC are 4 pattern available Vibrator pattern: 11110000 vibrator pattern is valid for all RIC					Baud C 2- € 1: C 5	rate 400 B 200 B 12 Ba	aud aud ud
En	RIC	Sub	Туре	Arrou	Br	Sw	Ch	Preset message	AM	LED	Rep.	SA	SA LG	Prio	Step 🔺
X	500	A	Alpha	1			XI	Rediness	2	1	5			Х	
X	500	В	Alpha	2			X	Alert	3	1	5			X	
X	500	С	Alpha	3			XI	Call back	4	1	5				

6.10 LED combinations

Four different blink sequences (1,2,3,4,) can be defined with each digit 0 and 1 having a length of 0.125 seconds. The programmed pattern - 8 digits "1" and/or pauses "0" represents a lapse of one second and is repeated as often as is defined under "Rep". Likewise, the relative baud rate is defined in window by a dot.

	LED-Patt 1 11 2 11 3 11 4 11 LED-Patt	ern 110 110 110 110	000 000 000		For	Hel all RI	p Ca	re 4 pattern available					Baudr C 24 C 12 C 51	ate 100 B 200 B 12 Ba	aud aud ud
En	RIC	Sub	Туре	Arrov	Br	Sw	Ch	Preset message	AM	LED	Rep.	SA	SA LG	Prio	Step 🔺
X	500	Α	Alpha	1			Х	Rediness	2	1	5			X	
X	500	В	Alpha	2			X	Alert	3	1	5			X	
X	500	С	Alpha	3			Х	Call back	4	1	5				

6.11 Repetition

The duration of the alarm signal – the standard being 5 seconds, can be set to 1-30 repetitions of the specified alarm sequence. The duration of an alarm sequence (comprising 8 tones or pauses) is 1 second.

1	Repetition	5 6 7 8 9 10 11 12	•										Baudi C 2/ € 12 C 5	rate 400 B 200 B 12 Ba	aud aud ud	
En	RIC	Sub	Туре	Arrov	Br	Sw	Ch	Preset message	AM	LED	Rep.	SA	SA LG	Prio	Step	
X	500	A	Alpha	1			Х	Rediness	2	1	5			X		
X	500	В	Alpha	2			Х	Alert	3	1	5			X		
X	500	С	Alpha	3			Х	Call back	4	1	5					

6.12 SA audio response

Mark the box for direct audio response when not in the charger.

I	Direct s	peec	h retrie	ving c	out c	of cł	arge						Baud ○ 2 ○ 1: ○ 5	rate 400 B 200 B 12 Ba	aud aud ud	
En	RIC	Sub	Туре	Arrov	Br	Sw	Ch	Preset message	AM	LED	Rep.	SA	SA LG	Prio	Step	-
Х	500	A	Alpha	1			Х	Rediness	2	1	5			X		
X	500	В	Alpha	2			Х	Alert	3	1	5			Х		
Х	500	С	Alpha	3			Х	Call back	4	1	5					

6.13 SA LG audio response charger unit

Mark the box for direct audio response when not in the charger.

	Direct sp	peech	i retriev	/ing ir) ch	arge	3						Bauc C 2 C 1 C 5	drate 2400 E 200 E 312 B a	laud laud aud
Er	RIC	Sub 1	Туре	Arrov	Br	Sw	Ch	Preset message	AM	LED	Rep.	SA	SA LG	Prio	Step 🔺
Er X	RIC .	Sub 1	Type Alpha	Arrov	Br	Sw	<u>Ch</u> X	Preset message Rediness	AM 2	LED	Rep.	SA	SALG	Prio ×	Step 🔺
Er X	RIC	<u>Sub</u> 1 A 4 B 4	Type Alpha Alpha	Arrov 1 2	Br	Sw	Ch X X	Preset message Rediness Alert	AM 2 3	LED 1 1	Rep. 5	SA	SA LG	Prio ×	Step -

6.14 Priority

Mark the box for call priority.

I	Priority												Baudi C 24 C 12 C 51	rate 400 B 200 B 12 Ba	aud aud ud	
En	RIC	Sub	Туре	Arrov	Br	Sw	Ch	Preset message	AM	LED	Rep.	SA	SA LG	Prio	Step	-
X	500	A	Alpha	1			Х	Rediness	2	1	5			X		
X	500	В	Alpha	2			Х	Alert	3	1	5			X		
X	500	С	Alpha	3			Х	Call back	4	1	5					

Step - Reserved for future applications

7 <u>Lexica</u>

Regramming Software DV500	_ 🗆 🗵
Eile Settings Info	
File: no file loaded	
2 <u>*</u> CA : ⟨Car accident⟩ str ' : ⟨Street⟩]
4 A Str. : (Street)	
5 str Str : <street> 6 0.' k.' : <oh##k^ej></oh##k^ej></street>	
7 h : <per hour=""></per>	
12 13	
14 Save	1
16 Read lexicon Write lexicon / Reset	
A is exchanched by B Help Lexicon OKI	
Read lexicon Write lexicon	
Own sign Speech chip	
SP SP SP Pronounce te	sst
Speech speed +0 Pitch +0 Volume 6 Set volume	
Hardware System Address Lexicon Handling File Info	

The DV500 provides various lexica and abbreviation conversions.

OKI lexicon

User lexicon

Exception lexicon

Abbreviation conversions

The following sketch shows how, when a message is received from the decoder, it traverses the pager.

7.1 Conversion and progress of a message through the DV500



7.2 OKI lexicon

Abbreviate.rgs (ROM abbreviation lexicon) is predetermined for each language. This lexicon is stored on the OKI chip-set ROM and cannot be changed. The content of the Abbreviate.rgs file can be opened with the "OKI lexicon" button.

Abbrev_ge.doc	German
Abbrev_fr.doc	French
Abbrev_us.doc	US English
Abbrev_uk.doc	British English

7.3 User lexicon

Customised abbreviations can be defined with *User.exc* (abbreviation lexicon). This lexicon is loaded from EEPROM via the C when the language processor is booted. This lexicon can be defined by the programming software.

To create and edit this lexicon, the syntax must be precisely observed.

The word to be converted must be to the left of the colon. To the right is indicated how the word should be spoken. Here, 2 different spellings are possible; the normal spelling in < > or the phonetic spelling in [].

It is important to know that abbreviations are recognised only if a space is left before and after them or if they are positioned right at the start or end of a text string.

To find out more about syntax, click on the "Help" button or check with "English_TTS_1-2.PDF" in the User's Manual

7.4 Exception lexicon (A-B lexicon)

Abbreviations which already exist in the ROM lexicon can be defined or redefined with the exception lexicon.

Example: If "AG" is meant to stand for the Swiss place name "Aargau" and not for "age" as is pre-determined in the OKI lexicon.

The lexicon is also very useful, for example, for correctly pronouncing country names that end in _____shr (Hampshr.). In this case shr. would be changed to _SHIR_; the _SHIR_ will then become "Shire" in the User lexicon.

According to the syntax, no final full-stop is allowed in the User lexicon, that means that the abbreviation nr. cannot be properly converted to sound like "near". This is because a full-stop is always interpreted as being the end of a sentence. To solve this problem, each <u>.</u> is given as <u>.'</u> (full-stop + apostrophe).

The character-conversion table is pre-defined specific to each country. With this table, certain 7-bit characters are converted to country-specific signs. It has been found advisable to replace / with a space as (in German) the slash "/" is normally used to mean " \div " and is pronounced "divided by".

7.5 Explanation of the individual buttons

Load/Save:	The User's lexicon and the Exception lexicon are saved in a *.exc file.
Read lexicon:	The User's lexicon or the Exception lexicon are read.
Write lexicon:	The User's lexicon or the Exception lexicon are written. When writing the Exception lexicon a reset is automatically per- forms as this lexicon is active only after a reset.
Help:	Syntax for User's lexicon
OKI Lexicon:	Content of the predetermined OKI lexicon is displayed
File:	Name of the downloaded Lexicon file is displayed
Speech Chip	Text written in to the "Speech chip" window will be by pushing the button "Pronounce text" pronounced. "Speech speed" and "Pitch" can be varied between -99 to +99 likewise "Volume" can be set between 1 and 8.

8 Servicing



Selection menu

In the selection menu field you define the user-activated pager operating functions. All the operating functions appear in the pager display with an affiliated symbol as shown in the following section after the respective function names.



Field-strength alarm Y Weak field strength signal: Select between ON (optical warning with sound signal) and OFF (optical warning only) - confirm with SELECT and the device will CONFIRM your choice. **Retrieve message** Retrieve messages from the message memory MEMO 1-15 (1 = latest message). The message is played with ENTER (see Retrieving messages). × · · / / - -0 -Retrieve the message to be protected (select with EN-Protect message TER) and it will start to be played back. Once it has finished, or by pressing SELECT as it is playing, "Prot" (Protect) will appear for 5 seconds during which you can protect the message with ENTER. - 6 -Proceed as for protecting message – in this case "DEL" Delete message (Delete) appears in the display ×¹// - D Time-setting is activated with ENTER; the first two digits Set time and date (hours) blink; repeatedly press SELECT to change the number. Now select the minute digits with ENTER and change them with SELECT. By now pressing ENTER again, you can adjust the date. Proceed as with the time-setting – starting with the month, then the day. ×¹// - (O) -As with time-setting, plus with ON/OFF-setting option. Set alarm With "ON", the symbol is visible in the display in normal mode. How to use alarm: When the alarm goes off, it can be stopped by pressing any of the buttons. "S" (Snooze) begins to blink and alarm repeats after 10 minutes. Press a key once again and the alarm is turned off for 24 hours. **Check messages** Select check messages. Press the ENTER key and the DV500 automatically plays all your messages – starting with the latest. By repeatedly pressing ENTER while the messages are playing, you can move from one saved message to the next. If a message is played right through, the display shows the time and date the message was received for 2.5 seconds. If you press ENTER again during this time, the message will be repeated. The playing of a message can be interrupted by pressing the SELECT button. - Secondary menu (secondary service level)

Depending how the device is programmed, the DV500 can have two service levels. To enter the secondary service level, press the SELECT button and hold it down for longer than 3 seconds. The secondary level offers the same functions as the primary level. After a confirmation in the secondary service level, the DV500 automatically reverts to the primary service level. If you are in the secondary service level and no button is pressed, the DV500 will automatically return to the primary service level after approximately 8 seconds.

Priority list

In this window, you can determine the selection sequence of the symbols (pager operating functions) on the LCD. Click the corresponding term and move it up or down with the arrow keys.

Key functions:

Key clicks *Turn-off beep off.	Each keystroke is acknowledged with a short "click". A series of sounds is emitted when the device is turned
Turn-on beep Turn-off pager	A single "beep" sounds when the device is turned on By holding both buttons down simultaneously for approxi- mately 3 seconds, the pager switches off.
Call reminder:	
Off	No call reminder
LED	LED blinks after the pre-defined time if a call is not ac-
LED + sound	LED blinks and a peep sounds accompanied by a short vibration after the pre-defined time if a call is not accepted.
Repetition time	The time can be set to between 3 sec. and 4 min; 15 sec.
Repetition	Frequency of the repetitions (0, 10, 20 30 times)
Standard volume	Standard volume step 6 (8 steps in all)
Vibrator	
active also in the charger	The vibrator is in principle activated Vibrator is activated also while charging
Accumulator type:	Nickel-Cadmium (NC) or nickel-metal-hydride (NMHyd) must be set here.
System time	It is possible to set the system date and time or to down- load it from the PC itself
ОКІ	There can "Speech speed" an "Pitch" be set between -99 and +99
Broadcast time and OKI	Reserved for future applications

9 File information

File Settings Image: Setti	Rrogramming Software DV500	
Image:	<u>File Settings Info</u>	
Hardware information Device number 0rder No. 104.703 Serial number 200220.02649 File Information Number Customer Programming for Werni 18.06 2002 / zm User specified Image: Specified	🔒 🔒 🚅 📮 🎒 Reset Sync 🖸	m 1; 38400 Baud C:\Progsoft\PSW/500\Programming USA.500
User specified	Hardware information Device number 0001 Order No. 104.703 Serial number C200220.02649	File Information Number Customer Programming for Werni 18.06 2002 / zm
		User specified

This window offers you the possibility of saving customer and device data on your PC.

You can save hardware information (unchangeable) in the following fields:

- Device number
- Order number and
- Serial number

and entries under file information in the following fields:

- Number
- Customer and
- User definitions

as well as all pager programming data and options in a ??????.500 file.

10 PGM 300/429 specifications

PGM 300/429:	SW Art. No. 0951 450
Power supply: Frequency: Output voltage: Power plugs: Norms:	Mains - AC power adapter, AC 230V +/-10%, 50/60 Hz DC 12.6V / 450mA unregulated. Euro-plugs: CH, FRG, F, Scandinavia and sundry SEV, VDE, DEMKO, SEMKO, and so on
Indicator LED:	yellow LED = DC supply green LED = Data flow
Interfaces:	DIN socket RS-232, 9-pin D jack,
Labelling:	PGM 300/429 with ID No. 951 450

11 View of the PGM 300/429



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ATTENTION: The PGM 429/300 programmer is not a charger.

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