

S I M A D Y N D

User's Guide

Service

IBS

version: 910115.310

date: 02.09.91

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1 Safety Note

The CHANGE-V and CHANGE-C functions of the IBS program permit changes to be made in the facility configuration.

Changes in the configuration should only be carried out by qualified specialists who have a precise knowledge of the facility, because the safety of staff and equipment can not be guaranteed if technically inappropriate changes are made to the system configuration.

The safety notes for the plant and facilities in it must be strictly observed!

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2 HW Configuration

- 0 Service devices PG 685 , PG 685-2 , PG 750 , PC
- 0 SIMADYN D subrack
- 0 Serial connecting cable

Device	MLFB Number	Cable	Hardware Version
PG 685, PG 685-2	6DD1684-0CB0	SC21 | 20 mA	V1.0
" "	6DD1684-0DC0	SC32 | 20 mA	V2.0
PG 750, PC	6DD1684-0EA0	SC40 | V24 (RS-232-C)	V2.0
" "	6DD1684-0EB0	SC41 | 20 mA	V2.0

The connecting cable should be plugged into the PLC interface on the PG 685 or PG 685-2 programmer. In the case of a PG 750 programmer or PC, the connecting cable is connected to the COM1 interface. At the processor module end, the cable should be connected to whichever interface is configured for the monitor.

Note: If a Hardlock is used on the COM1 interface on a PG 750 or a PC, the current-loop interface (SC41 cable) cannot be used.

If a Hardlock is plugged in, this interface can be driven only as a V24 (RS-232-C) interface (20mA operation is not possible)! In this case, the link to the processor module must be made using an SC40 cable. In the processor module the 20 mA interface module should be replaced by a V24 (RS-232-C)-submodule. Up from version V 3.1 the Hardlock can be plugged in the COM2 interface. Therefore the COM1 interface can be used as 20 mA interface.

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3 Software Supply Format

The IBS (Installation) program can be covered by either an individual licence or a general one.

General licence

		With Hardlock	Supplementary to Hardlock
V 3.0	Floppy disks	DM0-1, DM0-2 DX 2	DM0-1, DM0-2
V 3.1	Floppy disks	DM0-1, DM0-2 DM0-3, DX2	DM0-1, DM0-2 DM0-3.

The general licence includes IBS and RCOP. The software can be run under the PCP/M-86 and MS-DOS operating systems, and can be installed in German or in English.

Individual licence

		With Hardlock	Supplementary to Hardlock
for PCP/M	Floppy disks	DM1	DM1 V 3.0
for MS-DOS	Floppy disks	DM1, DX2	DM1
for PCP/M	Floppy disks	DM1, DM2	DM1, DM2 V 3.1
for MS-DOS	Floppy disks	DM1, DM2, DX2	DM1, DM2

Depending on what is ordered, the software for the individual licence will be delivered in German or in English.

Up from version V 3.1 the software is delivered on 5 1/4" and 3 1/2" diskettes. The 5 1/4" diskettes are formatted with PCP/M, the 3 1/2" diskettes with MS-DOS. For the 3 1/2" diskettes there is no DM0-3 or DM2.

Please ask your Sales office what details are required when placing an order for the above software products.

Order from : ANL A434 GD

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4 Installation

From version V3.0 on, the IBS program is available for the following devices:

Device	Operating system
PG 685	PCPM
PG 685-2	PCPM
PG 7x0	MS-DOS
PC	MS-DOS

Execution of the IBS program requires the following operating systems:

o PG operating system: PCP/M-86 V 2.x

o PC operating system: MS-DOS V 3.x

Execution of the IBS program under MS-DOS requires the following programs from the PG operating system, PCP/M-86:

- o CCP.CMD (Command interpreter)
- o BACK.CMD (Program for background processing)
- o SUBMIT.CMD (Program for running Submit files)

These components are contained in the PCP/M-86 operating system, and must be copied across to the MS-DOS system.

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The following installation instructions can only be carried out with an operational device. The installation uses submit (PCP/M) or batch files (MS-DOS).

4.1 PG 685-1

- Set up the required USER area nB>n:
- Copy the floppy disks to the hard disk
- General licence :
 - Insert the floppy disk DM0-1 in Drive A:
 - Copy the floppy disk nB>pip b:=a:*. *[g0 orvw]
 - Repeat this with the floppy disks DM0-2 and DM0-3 (only V 3.1) !!
- Individual licence :
 - Insert the floppy disk DM1 in Drive A:
 - Copy the floppy disk nB>pip b:=a:*. *[g0 orvw]
 - Repeat this with the floppy disk DM2 (only V 3.1) !!
- Start installation submit nB>submit ibs685
- Install the message file
(only for a general licence)
 - German nB>submit INSDTS f. V 3.0
 - English nB>submit INSENG f. V 3.0
 - German nB>submit INRDTS f. V 3.1
 - English nB>submit INRENG f. V 3.1

4.2 PG 685-2

- Set up the required USER area nB>n:
- Copy the floppy disks to the hard disk
- General licence :
 - Insert the floppy disk DM0-1 in Drive A:
 - Copy the floppy disk nB>pip b:=a:*. *[g0 orvw]
 - Repeat this with the floppy disks DM0-2 and DM0-3 (only V 3.1) !!

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--	--------------------------------

Individual licence :

Insert the floppy disk DMI in Drive A:
Copy the floppy disk

nB>pip b:=a:*. *[g0 orvw]

Repeat this with the floppy disks DMO-2 and DMO-3 (only V 3.1) !!

- Start installation submit

nB>submit ibs682

- Install the message file
(only for a general licence)

German
English

nB>submit INSDTS f. V 3.0
nB>submit INSENG f. V 3.0

German
English

nB>submit INRDTS f. V 3.1
nB>submit INRENG f. V 3.1

4.3 MS-DOS (PG 730/750 and PC)

4.3.1 Version V 3.0

MS-DOS Version 3.x must be loaded into the device. The MS-DOS version will be displayed on the screen when the operating system is loaded. The DOS command CHKDSK should be used to check the available working disk storage. 512 Kbytes (524288 bytes) are required.

- Select the path
If this does not already
exist, then create it with

C:>cd \struc\user0

C:>md struc
C:>cd struc
C:\STRUC>md user0
C:\STRUC>cd user0

- Copy the floppy disks to the hard disk
Insert floppy disk DX2 in drive A:
Copy floppy disk DX2

C:\STRUC\USER0>copy a:*. *

General licence :

Insert the floppy disk DMO-1 in Drive A:
Copy the floppy disk

C:\STRUC\USER0>cread a:*. * /r

Repeat this with the floppy disks DMO-2 and DMO-3 (only V 3.1) !!

Individual licence :

Insert the floppy disk DMI in Drive A:
Copy the floppy disk

C:\STRUC\USER0>cread a:*. * /r

Repeat this with the floppy disk DM2 (only V 3.1) !!

- Start batch-mode installation

C:\STRUC\USER0>ibspc

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731040.txt	4.3 MS-DOS (PG 730/750 and PC)
02.09.91	4.3.1 Version V 3.0

- Install the message file
(only for a general licence)

V 3.0	German	C:\STRUC\USER0>INSDTS
V 3.0	English	C:\STRUC\USER0>INSENG
V 3.1	German	C:\STRUC\USER0>INRDTS
V 3.1	English	C:\STRUC\USER0>INRENG

The file path C:\STRUC\USER0 can be recorded in the PATH instruction of AUTOEXEC.BAT as a search path. The IBS program can then be called from any directory path.

Warning : The programs CCP.CMD, BACK.CMD and SUBMIT.CMD must also be copied across from a PCP/M-86 system!

4.3.2 Version V 3.1

Up from version V 3.1 there are available installation files by which the operator is guided during installation.

The installation then has to be made as follows:

- o insert DX2 diskette in drive A: and call

C:\>A:INSTALL1 Then start

C:\STRUC\USER0>INSTALL3

The installation in the way above is working correctly only for MS-DOS versions >= V 3.3 . For MS-DOS versions < V 3.3 the installation has to be made step by step (see installation V 3.0).

On PG7x0 during installation the question appears, if the delivered files CONFIG.SYS and AUTOEXEC.BAT should be installed. These files are constructed in the way, that IBS can be started from every path and is running on these devices by all means (appropriate configuration).

At the end of operation of all these installation files the software is installed on the path C:\STRUC\USER0.

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V 910115.310 731040.txt 02.09.91	5 Starting the Program 5.1 PCP/M-86 (PG 685)
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5 Starting the Program

Note : The program start which follows can only be carried out as described if the program has been installed as described in the section on 'Installation'.

5.1 PCP/M-86 (PG 685)

The following instructions apply to the devices PG 685-1 and PG 685-2 with the PCP/M-86 operating system.

Select the USER area into which the
IBS software was copied during its
installation.
(n = 1, .. , 15)

nB>n:...

Starting the program with Submit

nB>submit ibs

Starting the program manually

Start IBS initialization

nB>i1

Start the background program

nB>back i2

Start the IBS dialog

nB>i3

5.2 MS-DOS (PG 730/750 and PC)

The following instructions apply to the devices PG 730/750 and PG 695/AT-PC with the MS-DOS operating system.

Set up the path

C:>cd \struc\user0

The path setting can be omitted if
AUTOEXEC.BAT has been amended appropriately

To start the program

C:\STRUC\USER0>ibs

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V 900601.300 731040.txt 16.04.91	6 Screen layout
--	-----------------

6 Screen layout

date : tt.mm.jj hh.mm

PN: n n n n n n n n

headline

----- name -----

D i s p l a y

-----message-----							status --
name	parameter input						
F1/f1	F2/f2	F3/f3	F4/f4	F5/f5	F6/f6	F7/f7	F8/f8
DISP-VAL	-----	-----	-----	DISP-S/R	DISP-CON	TIME	REP-D-V
CHANGE-V	-----	-----	-----	MESSAGE	CHANGE-C	QUIT	-----

The screen display is divided into three areas :

- 0 Status display
 - Date
 - Time
 - The active processor module
- 0 The output area
 - Heading line for display area
 - Fields for display of softkey functions
- 0 Input area
 - Message line for status messages
 - Parameter input line
 - Softkey labels
 - Softkey table

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--	-----------------

Status display

The status display occupies the two uppermost lines on the display screen. On the left of the first line, the date and time are output by the programmer or PC. The time is continuously updated.

During the start-up, the identity numbers of the active processor modules are displayed on the right of the first line. There is a fixed column for each processor module (1 .. 8). When any processor is inactive, the corresponding column remains blank.

Heading line

Each group of softkey functions is assigned a heading line, which appears on the 3rd line of the screen. Softkey function group 'D' has no heading line, and does not alter the heading line already displayed. If a softkey function from a different function group is selected, the previous heading line will be overwritten by the new heading line.

Dividing lines

The dividing lines consist entirely of '-' characters if the display area is blank. The name of the softkey function is inserted on the right of the dividing line as long as at least one line in the display area contains an entry.

Output area

The various softkey functions use the output area for their display fields. Softkey functions for which the output fields can be displayed at the same time in the output area are assembled into softkey function groups, and have a common heading line on the 3rd line of the screen display.

Softkey function group A

Display field 1	Display field 2	Display field 3
DISP-VAL	-----	CHANGE-V
REP-D-V		

Softkey function group B

Display field 1	Display field 2
DISP-CON	CHANGE-C

V 900601.300 731040.txt 16.04.91	6 Screen layout
--	-----------------

Softkey function group C

Display field 1

MESSAGE

Softkey function group D

No display field

TIME QUIT

Input field

The input field occupies lines 21 - 25 on the screen. The message line (21st line of screen) displays the system (error) and operating error messages. Outputs in the message line are displayed in reverse video (bright background and dark letters) starting in the 6th column. A message appears if, for example, an impermissible key is pressed. The message is deleted from the message line when the reason for the message has been eliminated, or a new message has to be output. The message line is filled with the character '-' if there is no current message to display. The message line also forms the dividing line between the output and input areas.

The softkey functions which are called up are displayed in the parameter input line (22nd line of screen), with the parameter input form.

The last three lines of the screen show the legends on the softkeys and the table of softkeys. The softkey table shows the names of the softkey functions which are available. When a softkey function is selected, the table of softkeys changes from the basic menu to the menu for parameter input. When a softkey function is completed or abandoned, the basic menu is redisplayed.

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--	---------------

7 Starting up

```
****  ****  **   **   ***  *****  **   **  **   **   ****
**  **  **   ***  ***  **  **  **   **  **   **   **   **   **
**      **  ** * * **  **  **  **   **   ****  ***  **   **
****   **  ** * * **  **  **  **   **   **   **   ** * **
      **  **  **   **  *****  **   **   **   ** * **
**  **  **  **   **  **  **  **   **   **   **   ***
****  ****  **   **  **  **  *****  **   **   **   ****
```

```
***  ****  ***
*  *  *  *  *
*  *  *  *
*  ****  ***
*  *  *  *
*  *  *  *  *
***  ****  ***
```

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W A R N I N G !!

Running this program improper operation by user can result in
severe personal injury or property damage !
Start by RETURN key !

After the IBS program is started, the above display appears on the screen,
with the Copyright notice and the safety warning.

The RETURN key should be pressed to continue with the IBS program.

If any other key is pressed, the IBS program will terminate, with the 'END'
message.

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V 900601.300 731040.txt 16.04.91	7 Starting up
--	---------------

date : 20.08.90 07.45

PN: 1

```

****      ****      **      **      ***      *****      **      **      **      **      ****
** **      **      ***      ***      ** **      **      **      **      **      **      **      **      **
**      **      ** * * **      **      **      **      **      ****      ***      **      **      **
****      **      ** * **      **      **      **      **      **      **      **      * **      **      **
      **      **      **      **      ****      **      **      **      **      **      * **      **      **
** **      **      **      **      **      **      **      **      **      **      **      ***      **      **
****      ****      **      **      **      **      ****      **      **      **      **      **      ****

```

```

***      ****      ***
*      *      *      *      *
*      *      *      *
*      ****      ***
*      *      *      *
*      *      *      *      *
***      ****      ***

```

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							START
F1/f1	F2/f2	F3/f3	F4/f4	F5/f5	F6/f6	F7/f7	F8/f8
-----	-----	-----	-----	-----	-----	-----	CLEAR
-----	-----	-----	-----	-----	-----	QUIT	-----

Following the pressing of the RETURN key during startup, the system determines which processors are active in the connected subrack. The 'START' status message appears on the right of the message line. The system waits for a preset time, for the active processors to reply.

The softkey table is then displayed. Pressing the softkey QUIT will prematurely terminate the determination of the 'active processors'. After either the preset waiting time has expired, or the QUIT softkey has been pressed, the basic menu is displayed, showing the softkey functions (see 'Basic Menu').

Note : The startup should not be terminated (by pressing the QUIT softkey) until all the 'active processors' are displayed. Any processor which is not displayed cannot be addressed during subsequent execution of the IBS program.

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V 900601.300 731040.txt 16.04.91	8 Basic Menu
--	--------------

8 Basic Menu

date : 20.08.90 07.46

PN: 1

```

****  ****  **   **   ***  *****  **   **  **   **   ****
** **  **   ***  ***  ** **  **   **   **   **   **   **   **
**      **   ** * * **  **   **   **   **   ****  ***  **   **
****    **   ** * **  **   **   **   **   **   **   * **   **
      **   **   **   **   *****  **   **   **   **   * **   **
** **  **   **   **   **   **   **   **   **   **   **   ***
****  ****  **   **   **   **   *****  **   **   **   ****

```

```

***  ****  ***
*  *  *  *  *
*  *  *  *
*  ****  ***
*  *  *  *
*  *  *  *
***  ****  ***

```

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V3.0 --

F1/f1	F2/f2	F3/f3	F4/f4	F5/f5	F6/f6	F7/f7	F8/f8
DISP-VAL	-----	-----	-----	DISP-S/R	DISP-CON	TIME	REP-D-V
CHANGE-V	-----	-----	-----	MESSAGE	CHANGE-C	QUIT	-----

The first line of the screen shows the processors which can be addressed during execution of the program.

The softkey table shows the basic menu, with the IBS program functions :

DISP-VAL	Display values
CHANGE-V	Change values
	Save values
DISP-S/R	Stop / permit the updating of the DISP-VAL and CHANGE-V displays
MESSAGE	Display and delete messages
DISP-CON	Display connections
CHANGE-C	Change and save connections
REP-D-V	Recreate the path name for DISP-VAL
TIME	Set PG clock
QUIT	Terminate IBS program

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731040.txt	9.1 DISP-VAL
16.04.91	

A letter to control the format of the output may be entered into the last field on the parameter input line (on the right, between the colons). The following output control characters are permitted :

H ... Output in hexadecimal
D ... Output in decimal
B ... Output in binary
Z ... Output in percent
... Output as configured

Input of parameters is terminated by pressing the RETURN key.

The path name and value are then shown in the DISP-VAL display area, in the line numbered 01. The value is continuously updated (see also the function DISP-S/R).

The softkey table will then show the basic menu for the next function to be selected.

```

date : 20.08.90 07.47                                     PN: 1
-----
No   PN   FP   FB           value      dimension      DISP-VAL
-----
01   P1   SINUS1  SINT1.Y  .....   -0.269         Z

```

```

----- V3.0 -----
DISP_VAL No:   PN: 1 FP- SINUS1 . SINT1.Y   :   :
F1/f1  F2/f2  F3/f3  F4/f4  F5/f5  F6/f6  F7/f7  F8/f8
DISP-VAL ----- DISP-S/R  DISP-CON  TIME  REP-D-V
CHANGE-V ----- MESSAGE  CHANGE-C  QUIT  -----

```

V 900601.300 731040.txt 16.04.91	9 Functions 9.1 DISP-VAL
--	-----------------------------

The next time the softkey for DISP-VAL is pressed, the cursor is positioned in the NR parameter field (the line number within the display area).

Quick input :

The path name can be copied into the parameter input line by entering a line number of 1 and pressing the RETURN key or CURSOR-RIGHT. The NR parameter field will only accept line numbers which are currently displayed in the display area for DISP-VAL or CHANGE-V (see the 'CHANGE-V' function). If a line number cannot be found, the message 'line position is unknown' appears in the message line. The line number can be edited. Once a path has been copied, the parameter field NR is deleted. The path name can be overwritten as required.

No path name will be copied if the parameter field NR contains no entry when the RETURN key or CURSOR-RIGHT key is pressed. The cursor is positioned in the PN parameter field. Input is then made in the same way as for the first entry, and is terminated by pressing RETURN.

After the RETURN key has been pressed, the new path is displayed in the DISP-VAL display area, in line 02. The softkey table displays the basic menu for the next function to be selected.

Display line

The display line on which the path that has been input should be displayed can be freely chosen within the DISP-VAL display area, as long as at least one display line within the DISP-VAL display area has already been used. This makes it possible to overwrite existing display lines. The existing display line is deleted if the new path cannot be displayed.

Softkey table

During the input of parameters, the QUIT and CLEAR softkeys are displayed in the softkey table.

The QUIT softkey allows the input of parameters to be abandoned at any point without affecting the contents of the DISP-VAL display area.

The CLEAR softkey allows the entire display area, or a single line, for DISP-VAL to be deleted if the cursor is positioned in the NR parameter field. If the cursor is not in the NR parameter field, the message 'softkey allowed in the 1st parameter field only' appears. The entire display area is deleted if there is no entry in the NR parameter area when the CLEAR key is pressed. A single display line is deleted by entering its line number and pressing the CLEAR key.

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--	-----------------------------

9.2 CHANGE-V

The CHANGE-V softkey function allows values to be changed and saved (EEPROM).

Following the pressing of the softkey function key for CHANGE-V, the screen below is displayed.

date : 20.08.90 07.49					PN: 1	
No	PN	FP	FB		value	dimension
01	P1	SINUS1	SINT1.Y	.....	-6.281	Z
02	P1	SINUS1	SINT2.Y	.....	5.511	Z

----- CHANGE-V							
----- V3.0 --							
CHANGE-V No:	PN:	FP-	.	:	:	:	:
F1/f1	F2/f2	F3/f3	F4/f4	F5/f5	F6/f6	F7/f7	F8/f8
-----	-----	-----	-----	-----	-----	-----	CLEAR
-----	-----	-----	-----	-----	-----	QUIT	-----

The cursor is positioned in the parameter field PN (processor module no.). The cursor cannot be moved to the left into the NR parameter field (number of display line) unless the display area for CHANGE-V and DISP-VAL contains a path name.

The inputs to be made into the parameter input line are the number of the processor module, the name of the functional package, and the block name with the connector identifier.

Entering the CHANGE-V parameters

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731040.txt	9.2 CHANGE-V
16.04.91	

The input of parameters for the CHANGE-V softkey function falls under three headings :

- Quick input
- Path input
- Value input

After a path has been entered, this softkey function then displays the current value of the specified path.

date : 20.08.90 07.49				PN: 1		
No	PN	FP	FB		value	dimension
						DISP-VAL
01	P1	SINUS1	SINT1.Y	.....	-6.281	Z
02	P1	SINUS1	SINT2.Y	.....	5.511	Z

							CHANGE-V
11	P1	SINUS1	SINT1.TI	.....	15.00023	[MS#]	
							V3.0 --
CHANGE-V No: PN: 1 FP- SINUS1 . SINT1.TI : = :							
F1/f1	F2/f2	F3/f3	F4/f4	F5/f5	F6/f6	F7/f7	F8/f8
							CLEAR
						QUIT	

The input of a path can be terminated by any of the keys CURSOR-LEFT, RETURN or ESC. After any of these keys has been pressed, the values can be entered.

In the display area (one display line) for CHANGE-V, the current value of the path is displayed. In the parameter input line, the character '=' appears in the last-but-one field. The cursor is positioned in the last parameter input field, on the right. A new value may be entered in this field.

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date : 20.08.90 07.50				PN: 1		
No	PN	FP	FB		value	dimension
DISP-VAL						
01	P1	SINUS1	SINT1.Y		-6.281	Z
02	P1	SINUS1	SINT2.Y	.....	5.511	Z

							CHANGE-V
11	P1	SINUS1	SINT1.TI	.....	19.99878	[MS#]	V3.0 --
CHANGE-V No: PN: 1 FP- SINUS1 . SINT1.TI : = : 20							:
F1/f1	F2/f2	F3/f3	F4/f4	F5/f5	F6/f6	F7/f7	F8/f8
							CLEAR
							QUIT

Terminating the input of values.

If a value is to be changed a number of times, then the value entries should be terminated using the ESC key. After the value has been updated in the display area for CHANGE-V, another value change may be made (cursor in the value input parameter field).

To save the value in the EEPROM or to exit from the CHANGE-V softkey function, press the RETURN key. After the value has been updated in the CHANGE-V display area, a prompt appears in the parameter input line, asking if the last value change is to be saved in the EEPROM.

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date : 20.08.90 07.51

PN: 1

No	PN	FP	FB		value	dimension	DISP-VAL
01	P1	SINUS1	SINT1.Y		-6.281	Z	
02	P1	SINUS1	SINT2.Y	.....	5.511	Z	

11	P1	SINUS1	SINT1.TI	.....	19.99878	[MS#]	CHANGE-V
							V3.0 --
CHANGE-V last value change - save ? (Y/N) : :							
F1/f1	F2/f2	F3/f3	F4/f4	F5/f5	F6/f6	F7/f7	F8/f8
							CLEAR
							QUIT

The only keys which may then be used are 'Y' and 'N'. If the 'N' key is pressed, the CHANGE-V softkey function is terminated without the last value change being saved in the EEPROM. If the 'Y' key is pressed, the last value change is saved in the EEPROM. The message 'last value change saved in EEPROM' appears in the message line. The basic menu is then displayed in the softkey table.

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date : 20.08.90 07.51				PN: 1		
No	PN	FP	FB	value	dimension	DISP-VAL
01	P1	SINUS1	SINT1.Y	-6.281	Z	
02	P1	SINUS1	SINT2.Y	5.511	Z	

11	P1	SINUS1	SINT1.TI	19.99878	[MS#]	CHANGE-V
----- last value change saved in EEPROM -----						V3.0 --
CHANGE-V last value change - save ? (Y/N) : Y :						
F1/f1	F2/f2	F3/f3	F4/f4	F5/f5	F6/f6	F7/f7
DISP-VAL				DISP-S/R	DISP-CON	TIME
CHANGE-V				MESSAGE	CHANGE-C	QUIT

Quick input :

The path name can be copied into the parameter input line by inputting a line number and pressing the RETURN key or CURSOR-RIGHT. The NR parameter field will only accept line numbers which are currently displayed in the display area for DISP-VAL or CHANGE-V (see the function 'DISP-VAL'). If a line number cannot be found, the message 'line position is unknown' appears in the message line. The line number can be edited. Once a path has been copied, the parameter field NR is deleted. The path name can be overwritten as required.

No path name is copied if the parameter field NR contains no entry when the RETURN key or CURSOR-RIGHT key is pressed. The cursor is positioned in the PN parameter field.

The path name can also be overwritten during a value input by using the CURSOR-LEFT KEY TO move the cursor out of the value input field. The path may be edited as required. Entry of an amended path name is terminated as described above. The value of the new path is displayed in the CHANGE-V display area. The cursor is now positioned in the value input parameter field, and the current value for the new path can be changed.

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Softkey table

During the input of parameters and values, the QUIT and CLEAR softkeys are highlighted in the softkey table.

The QUIT softkey function key allows the inputs (path and value inputs) for the softkey function CHANGE-V to be abandoned at any point. The display line (if there is one) in the CHANGE-V display area is retained, but is no longer updated.

Input can also be terminated at any time by pressing the CLEAR key. In contrast to QUIT, the display line in the CHANGE-V display area is deleted.

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9.3 DISP-S/R

The DISP-S/R softkey function enables the updating of the display area for DISP-VAL and CHANGE-V to be stopped or permitted.

If the output area is not being used by the softkey functions DISP-VAL and CHANGE-V when the DISP-S/R softkey function is called, the message 'only for softkey function DISP-VAL and CHANGE-V' will be output in the message line.

```

date : 20.08.90 07.55                                     PN: 1
-----
No   PN   FP   FB           value      dimension
-----
01   P1   SINUS1  SINT1.Y  .....  -6.281      Z
02   P1   SINUS1  SINT2.Y  .....   5.511      Z
-----

```

```

-----
11   P1   SINUS1  SINT1.TI  .....  15.00023    [MS#]
-----
-----DISP STOP
-----
F1/f1  F2/f2  F3/f3  F4/f4  F5/f5  F6/f6  F7/f7  F8/f8
DISP-VAL ----- DISP-S/R DISP-CON TIME REP-D-V
CHANGE-V ----- MESSAGE CHANGE-C QUIT -----
-----

```

After the softkey DISP-S/R has been pressed, the 'DISP STOP' status message appears on the right of the message line. The updating of values in the displayed fields will be stopped.

The next time the DISP-S/R softkey is pressed, the status message in the message line is deleted. The updating of the values in the displayed fields for DISP-VAL and CHANGE-V is continued.

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9.4 REP-D-V

The REP-D-V softkey function allows the last state of the display area which was saved for the softkey function DISP-VAL to be recreated.

The display area is saved under the following conditions :

- when the display area is cleared (DISP-VAL, CLEAR)
- when another softkey function group is called (DISP-CON, MESSAGE)

date : 20.08.90 07.56				PN: 1		
No	PN	FP	FB	FP	FB	K
01	P1	SINUS1	SINT2.Y	>	\$SINUS	DISP-CON
02				>	.....	SNEG.X
03				>	.....	SVERG.X2

REP-D-V repeat mask of DISP-VAL ? (Y/N) :							V3.0 --
F1/f1	F2/f2	F3/f3	F4/f4	F5/f5	F6/f6	F7/f7	F8/f8
DISP-VAL	-----	-----	-----	DISP-S/R	DISP-CON	TIME	REP-D-V
CHANGE-V	-----	-----	-----	MESSAGE	CHANGE-C	QUIT	-----

After the key REP-D-V softkey function is pressed, a prompt appears in the parameter input line, asking whether the DISP-VAL form is to be recalled. Only the 'Y' or 'N' key may be pressed. Pressing any other key will result in the 'only 'Y' or 'N' allowed' message appearing in the message line.

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If the 'Y' key is pressed, the 'repeat mask of DISP-VAL' message appears in the message line. The output area then displays the last saved copy of the DISP-VAL display area.

date : 20.08.90 07.56				PN: 1		
No	PN	FP	FB	value	dimension	
01	P1	SINUS1	SINT1.Y	-6.281	Z	DISP-VAL
02	P1	SINUS1	SINT2.Y	5.511	Z	

----- repeat mask of DISP-VAL ----- V3.0 --
REP-D-V repeat mask of DISP-VAL ? (Y/N) : Y :
F1/f1 F2/f2 F3/f3 F4/f4 F5/f5 F6/f6 F7/f7 F8/f8
----- CLEAR
----- QUIT -----

The output area remains unaltered if the 'N' key is pressed.

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9.5 DISP-CON

The function DISP-CON allows connecting links to be displayed. There are 12 lines in the DISP-CON display area. Internally, a maximum of 24 display lines are stored. The display area can be moved across the internally stored lines using the cursor.

The following screen appears after the DISP-CON softkey function key has been pressed (see 'Basic Menu').

```
date : 20.08.90 08.02                                PN: 1
-----
No  PN      FP      FB      FP      FB      K
-----
                                           DISP-CON
```

```
----- V3.0 --
DISP-CON No:  PN:  FP-      .      :
F1/f1      F2/f2      F3/f3      F4/f4      F5/f5      F6/f6      F7/f7      F8/f8
-----      -----      -----      -----      -----      -----      -----
                                           CLEAR
                                           QUIT
```

The cursor is positioned in the parameter field PN (processor module no.). The cursor cannot be moved to the left into the NR parameter field (number of display line) unless the DISP-CON display area contains a path name.

The entries to be made in the parameter input line are the number of the processor module, the name of the functional package, and the block name with the

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connector identifier. The input of parameters is terminated by pressing the RETURN key. The path is displayed in the DISP-CON display area (in the example below, an output connector wired to three input connectors).

date : 20.08.90 08.02				PN: 1		
No	PN	FP	FB	FP	FB	K
01	P1	SINUS1	SINT2.Y	>	\$SINUS	
02				>	.....	SNEG.X
03				>	.....	SVERG.X2

----- V3.0 --							
DISP-CON No:	PN: 1	FP- SINUS1	. SINT2.Y	:			
F1/f1	F2/f2	F3/f3	F4/f4	F5/f5	F6/f6	F7/f7	F8/f8
DISP-VAL	-----	-----	-----	DISP-S/R	DISP-CON	TIME	REP-D-V
CHANGE-V	-----	-----	-----	MESSAGE	CHANGE-C	QUIT	-----

In the softkey table, the basic menu is then displayed for selection of the next function.

When the next DISP-CON function is called, the cursor is positioned in the NR parameter field (display area line number).

Quick input :

A path name can be copied from the display area into the parameter input line by entering its line number and pressing the RETURN key or CURSOR-RIGHT. The NR parameter input field will only accept line numbers which are currently displayed in the display area for DISP-CON or CHANGE-C (see the 'CHANGE-C' function). If a line number cannot be found, the 'line position is unknown' message appears output in the message line. The line number can now be edited. Once a path has been copied, this parameter input field is deleted. The path which is copied is that to the left of the data direction character on the specified display line. Any required editing of the path name can be done in the parameter input line.

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No path name is copied if the parameter input field NR contains no entry when the RETURN key or CURSOR-RIGHT key is pressed. The cursor is positioned in the PN parameter input field. Input is then made in the same way as for the first entry, and is terminated by pressing RETURN.

The basic menu for selecting of the next function is then be displayed in the softkey table.

Softkey table

During the input of parameters, the softkeys QUIT and CLEAR are highlighted in the softkey table. The QUIT softkey allows the input of parameters to be terminated at any point, without affecting the contents of the DISP-CON display area. The softkey CLEAR allows the DISP-VAL display area to be deleted.

Display area for DISP-CON

The DISP-CON display area has 12 display lines. Internally, 24 display lines can be stored. If more than 12 lines are stored, the display area can be moved line-by-line across the internally stored lines (CURSOR-UP, CURSOR-DOWN), or page-by-page (SCROLL-UP and SCROLL-DOWN).

The cursor keys can also be used from within the basic menu to move the display area around.

If a path name without connections is entered (e.g.: input held at constant value, output unwired), the 'NO FB-CONNECTION EXISTS' message appears in the message line. The path can be edited in the parameter input line, and the input once again terminated using the RETURN key, or the input abandoned using the QUIT key.

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date : 20.08.90 08.02

PN: 1

No	PN	FP	FB	FP	FB	K	DISP-CON
01	P1	SINUS1	SINT2.Y	>	\$SINUS		
02				>		SNEG.X	
03				>	.....	SVERG.X2	

----- V3.0 -----

DISP-CON No: PN: 1 FP- SINUS1 . SINT2.Y :

F1/f1	F2/f2	F3/f3	F4/f4	F5/f5	F6/f6	F7/f7	F8/f8
DISP-VAL	-----	-----	-----	DISP-S/R	DISP-CON	TIME	REP-D-V
CHANGE-V	-----	-----	-----	MESSAGE	CHANGE-C	QUIT	-----

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9.6 CHANGE-C

The function CHANGE-C is used to alter connections. Possible changes are :

- Connect an input to an output
- Connect an input to a constant value

The last three changes which have been made to connections are shown in the CHANGE-C display area.

The following screen is displayed after the CHANGE-C softkey function key has been pressed (see 'Basic Menu').

date : 20.08.90 08.03				PN: 1		
No	PN	FP	FB	FP	FB	K
01	P1	SAEGE1	INTE1.Y	>	\$RAMPE	
02				>	.....	VERGL.X1
03	P1	\$RAMPE	.....	<	SAEGE1	INTE1.Y [PNC,LBC]

CHANGE-C

V3.0 --							
CHANGE-C No:	PN:	FP-	.	<	:		
F1/f1	F2/f2	F3/f3	F4/f4	F5/f5	F6/f6	F7/f7	F8/f8
-----	-----	-----	-----	-----	-----	-----	CLEAR
-----	-----	-----	-----	-----	-----	QUIT	-----

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The cursor is positioned in the parameter input field PN (processor module no.). The cursor cannot be moved to the left unless the display area for CHANGE-C and DISP-CON contains a path name.

The inputs to be made in the parameter input line are the number of the processor module, the name of the functional package, and the block name with the connector identifier of the input for which the wiring is to be changed. An output connector (block name with connector identifier) or a constant can be specified following the '<' character. If the input connector is already at a constant value, entry of another constant will be rejected (procedure for changing a constant - see the CHANGE-V function).

```

date : 20.08.90 08.04                                     PN: 1
-----
No  PN    FP      FB          FP      FB      K      DISP-CON
-----
01  P1    SAEGE1  INTEL.Y    >    $RAMPE
02                                     >    .....  VERGL.X1
03  P1    $RAMPE  .....    <    SAEGE1  INTEL.Y    [PNC,LBC ]
  
```

----- CHANGE-C

```

----- V3.0 --
CHANGE-C No:   PN: 1 FP- SAEGE1 . VERGL.X1 < 0      :
  F1/f1      F2/f2      F3/f3      F4/f4      F5/f5      F6/f6      F7/f7      F8/f8
  -----      -----      -----      -----      -----      -----      -----
  -----      -----      -----      -----      -----      -----      -----
                                     QUIT      -----
  
```

Input of parameters is terminated by pressing the RETURN key. After the RETURN key has been pressed, a prompt appears, asking if the change is to be saved permanently in EEPROM. Only the 'Y' and 'N' keys are permitted.

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date : 20.08.90 08.05

PN: 1

No	PN	FP	FB	FP	FB	K	
01	P1	SAEGE1	INTE1.Y	>	\$RAMPE		DISP-CON
02				>		VERGL.X1	
03	P1	\$RAMPE	.....	<	SAEGE1	INTE1.Y	[PNC,LBC]

						CHANGE-C
25	P1	SAEGE1	VERGL.X1	=	0.000 Z	

----- V3.0 --

CHANGE-C last connection change - save ? (Y/N) : :

F1/f1	F2/f2	F3/f3	F4/f4	F5/f5	F6/f6	F7/f7	F8/f8
-----	-----	-----	-----	-----	-----	-----	CLEAR
-----	-----	-----	-----	-----	-----	QUIT	-----

If the response is 'Y', the 'last connection change saved in EEPROM' message appears in the message line. In the softkey table, the basic menu is then displayed for selection of the next function.

If the 'N' key is pressed, the changes to the connections are not saved. The softkey function CHANGE-C is abandoned. No message appears. In the softkey table, the basic menu is then displayed for selection of the next function.

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--	----------------------------

9.7 MESSAGE

The MESSAGE softkey function allows messages which form part of the configuration to be inspected and deleted.

After the key MESSAGE softkey function is pressed, the following screen appears.

date : 20.08.90 08.07			PN: 1

No	PN	date	Time message

MESSAGE			

-----								V3.0	---
MESSAGE	PN:	:							
F1/f1	F2/f2	F3/f3	F4/f4	F5/f5	F6/f6	F7/f7	F8/f8		
-----	-----	-----	-----	-----	-----	-----	CLEAR		
-----	-----	-----	-----	-----	-----	QUIT	-----		

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--	----------------------------

The number of the processor module for which the messages are to be inspected or deleted is entered in the parameter input field PN. To start output of the messages, the RETURN key must be pressed. The program remains in the input mode for the MESSAGE softkey function. When the QUIT softkey key is pressed, the MESSAGE softkey function is terminated, and the basic menu displayed.

date : 20.08.90 08.09				PN: 1
No	PN	date	time	message
				MESSAGE
01	P1	01.01.90	00:01:42.16	Nullldurchgang
02	P1	01.01.90	00:01:42.23	Nullldurchgang
03	P1	01.01.90	00:01:42.33	Nullldurchgang
04	P1	01.01.90	00:01:42.43	Nullldurchgang
05	P1	01.01.90	00:01:42.53	Nullldurchgang
06	P1	01.01.90	00:01:42.53	Warning: Message(s) lost! : + 3120.

----- NO OTHER MESSAGE -----							V3.0 --
MESSAGE PN: 1 :							
F1/f1	F2/f2	F3/f3	F4/f4	F5/f5	F6/f6	F7/f7	F8/f8
-----	-----	-----	-----	-----	-----	-----	CLEAR
-----	-----	-----	-----	-----	-----	QUIT	-----

The messages are displayed in the MESSAGE display area. The MESSAGE display area has a maximum of 16 display lines. The output of messages will stop when 32 messages have been output, or when there are no more messages.

If any further messages are displayed, the preceding ones will be scrolled up out of the display window.

If there are no more messages, the 'NO OTHER MESSAGE' message appears in the message line. When the RETURN key is pressed again, the message output is restarted, beginning at line number 01 with the oldest message.

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Deletion

The CLEAR softkey function key is used to delete messages in the configuration data. The 'MESSAGES CANCELLED' message appears in the message line, and the MESSAGE display area is cleared. The program remains in the input mode for the MESSAGE softkey function.

date : 20.08.90 08.10				PN: 1
No	PN	date	time	message
				MESSAGE-

----- MESSAGES EXPECTED -----							V3.0 --
MESSAGE PN: 1 :							
F1/f1	F2/f2	F3/f3	F4/f4	F5/f5	F6/f6	F7/f7	F8/f8
-----	-----	-----	-----	-----	-----	-----	CLEAR
-----	-----	-----	-----	-----	-----	QUIT	-----

The 'NO MESSAGES PRESENT' message appears if there are no messages. The 'NO MESSAGE SYSTEM GENERATED' message appears if no message control system has been configured.

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9.8 TIME

The TIME softkey function allows the internal clock on a programmer or PC to be set.

When the TIME softkey function key is pressed, the time and the date in the parameter input line can be overwritten. The TIME softkey function does not change the existing display area.

date : 20.08.90 08.12				PN: 1		
No	PN	FP	FB	value	dimension	DISP-VAL
01	P1	SINUS1	SINT1.Y	-6.281	Z	
02	P1	SINUS1	SINT2.Y	5.511	Z	

11	P1	SINUS1	SINT1.TI	15.00023	[MS#]	CHANGE-V
						V3.0 --
TIME date: 20.08.90 TIME: 08.12 :						
F1/f1	F2/f2	F3/f3	F4/f4	F5/f5	F6/f6	F7/f7
						F8/f8
						CLEAR
						QUIT

The current time and date are entered in the appropriate parameter input fields. The cursor is initially positioned in the TIME parameter input field. The CURSOR-LEFT and CURSOR-RIGHT keys can be used to move the cursor within the parameter input form. The softkey function is terminated by pressing the RETURN key. The changes which have been made are copied into the status display (1st line on the screen).

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Softkey table

During the input of parameters, the QUIT and CLEAR softkeys are highlighted in the softkey table. The Softkey QUIT allows the input of parameters to be terminated at any point, without affecting the status display on the 1st line of the screen.

The CLEAR softkey may not be used from the TIME softkey function . If the CLEAR softkey key is pressed, the 'softkey not allowed here' message appears.

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--	-------------------------

9.9 QUIT

The QUIT softkey function ends the IBS program. After the QUIT softkey key is pressed, a prompt appears in the parameter input line, asking whether the program is to be terminated.

date : 20.08.90 08.18				PN: 1		
No	PN	FP	FB		value	dimension
DISP-VAL						
01	P1	SINUS1	SINT1.Y	.....	62.695	Z
02	P1	SINUS1	SINT1.Y	.....	-29.346	Z
03	P1	SINUS1	SINT2.Y	.....	-100.296	Z
05	P1	SINUS1	SINT2.Y	.....	-100.183	Z

V3.0 --							
QUIT quit program ? (Y/N) : Y :							
F1/f1	F2/f2	F3/f3	F4/f4	F5/f5	F6/f6	F7/f7	F8/f8
DISP-VAL	-----	-----	-----	DISP-S/R	DISP-CON	TIME	REP-D-V
CHANGE-V	-----	-----	-----	MESSAGE	CHANGE-C	QUIT	-----

If the 'Y' key is pressed, the program is terminated with the 'termination by user' message.

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----- termination by user ----- V3.0 --
QUIT quit program ? (Y/N) : Y :
F1/f1 F2/f2 F3/f3 F4/f4 F5/f5 F6/f6 F7/f7 F8/f8
DISP-VAL ----- DISP-S/R DISP-CON TIME REP-D-V
CHANGE-V ----- MESSAGE CHANGE-C QUIT -----

If the 'N' key is pressed, the program continues. The basic menu is then displayed in the softkey table for the next function to be selected.

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10 IBS Messages

10.1 I1 errors

IB-01 Driver not available, or this version of the driver not
 allowed
IB-02 Driver name not allowed
IB-10 Invalid storage reservation for interface
IB-11 Storage already reserved for interface
IB-20 Invalid storage release for interface
IB-30 Invalid storage deletion for interface
IB-40 Invalid storage pointer for interface
IB-90 Illegal function no. in interface call

10.2 I3 errors

IB-09 Screens not found in message file
IB-10 Invalid interface pointer
IB-11 Error when loading of message file
IB-12T Invalid test code in the message file
IB-12W Invalid wait time in message storage
IB-13 Text for message not found (HGP)
IB-14 Wait time expired, 1st synchronization
IB-15 Background program not running
IB-16 2nd synchronization invalid
IB-17 Unable to initialize syntax list
IB-18 Unknown monitor version
IB-19 Softkey table invalid (load, display)
IB-20 Status display invalid (load, display)
IB-21 Message line not found
IB-22 Error when loading or displaying (error) message texts
IB-24 Error in softkey decoder
IB-40 Error in MESSAGE softkey function

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11.1 Terms/Abbreviations

11.2 References