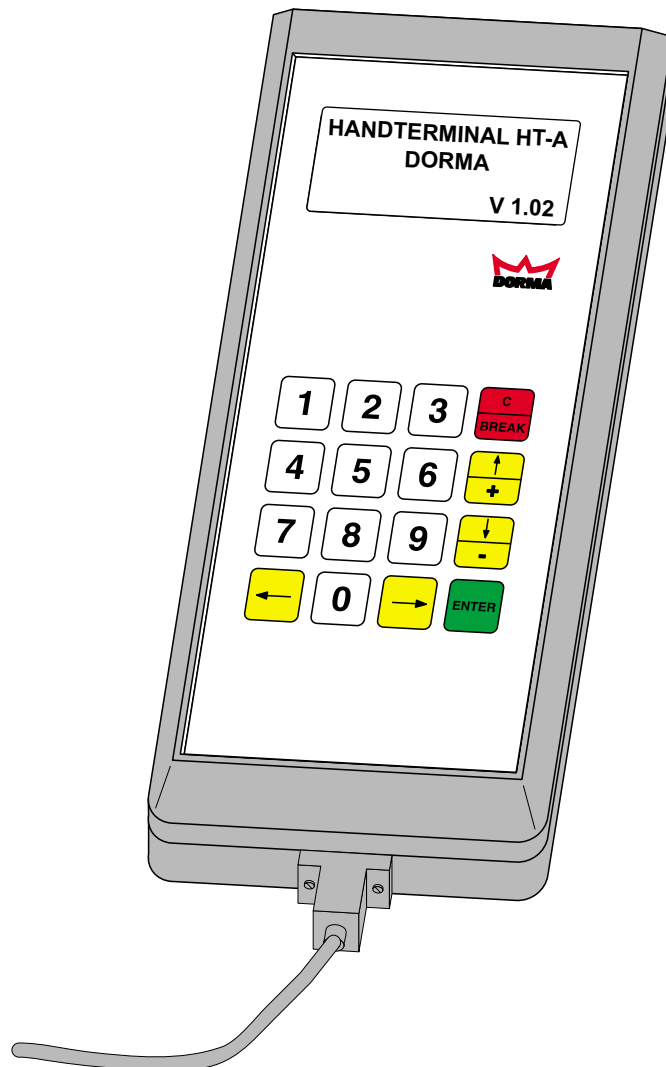


Operating Manual

DORMA Hand Terminal HT-A Software Version V 1.03

Commissioning, parameter modification and diagnostics of controls units on automatic sliding door systems



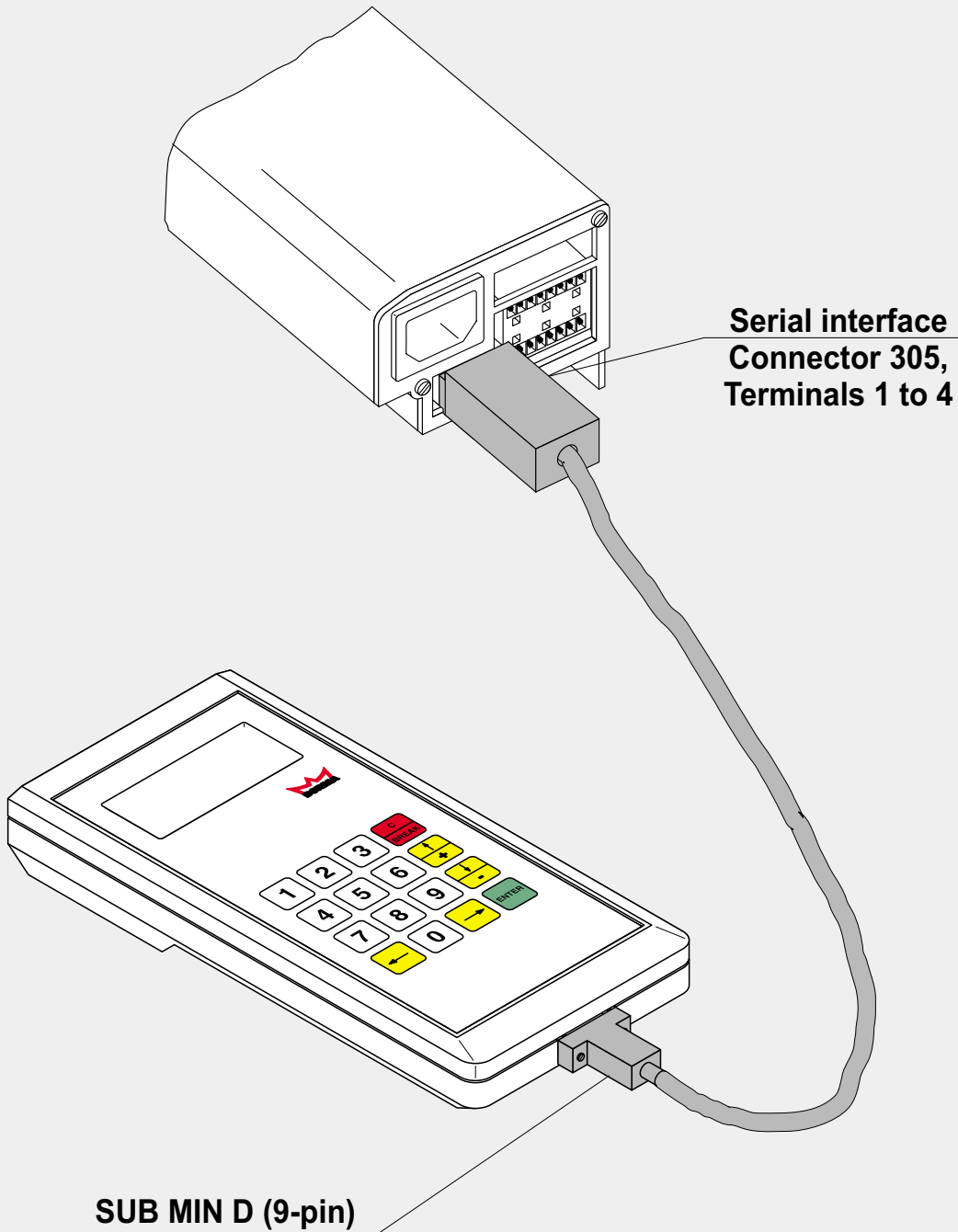
Attention!
This manual is only for the ES-A operator.

Hand Terminal software version HT-A V 1.03

August 2004 edition

DORMA Hand Terminal HT-A

Connection of Hand Terminal to ES-A control board



Select dialogue language!

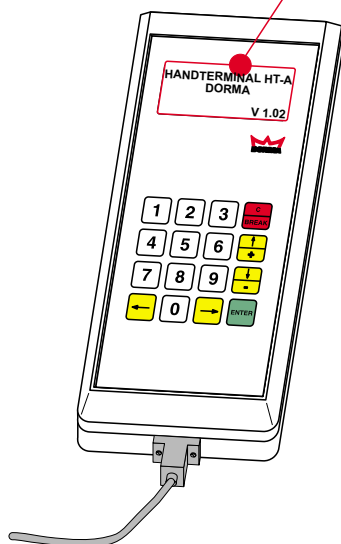
Choix de langue!

Scelta di lingua!

USA

F

E



1. ENTER

2. →

3. →

4. 6

**HAND TERMINAL HT-A
DORMA**

V 1.02

- Main Menu - 1
0 = Fault list
1 = Set Values
2 = Components Test >

- Main Menu - 2
3 = Factory Test
4 = Door Variants
5 = Basic Setting >

- Main Menu - 3
6 = Dialogue Language
7 = Management System
8 = Activation Pulse >

- Dialogue Language - 1
1=English 2=Francais
3=Espanol
Input 1 - 3? Enter

USA

1

- Dialogue Language - 1
1 = English 2 = Francais
3 = Espanol

F

2

- Dialogue Language - 1
1 = English 2 = Francais
3 = Espanol

E

3

- Dialogue Language - 1
1 = English 2 = Francais
3 = Espanol

Drawing, Connection of Hand Terminal	Page 2
Select Dialogue Language	Page 3
Contents	Page 5
General	Page 7
Keypad	Page 9
Main Menu	Pages 10 - 11
Fault List	Pages 12 - 13
Set Values	Pages 14 - 15
Components Test	Pages 16 - 17
Factory Test	Pages 18 - 19
Door Variants	Pages 20 - 21
Basic Setting	Pages 22 - 25
Dialogue Language	Pages 26 - 27
Management System	Pages 28 - 29
Activation Pulse	Pages 30 - 31
Complete System	Pages 32 - 33
Index	Pages 34 - 38

General

The DORMA Hand Terminal is an ideal tool for fast and effective performance of commissioning, diagnostics, testing and fault rectification work in relation to sliding doors and drive units (operators). It is particularly easy and convenient to use, and can help greatly in reducing the amount of work and time involved.

The dialogue between the user and the door control unit is performed via the 16-element keypad and the display window.

The display window has 4 lines with 20 characters/columns per line and menu page (Fig. 1).

The display constantly shows the number of the software version (HT-A) in its bottom right corner - in this case V1.02.

Connection

The connection between the ES-A control system and the Hand Terminal is provided by a cable.

Cable connection to the Hand Terminal = 9-Pin SUB MIN D connector

Connection between Hand Terminal and ES-A control = Serial interface of the ES-A control unit, connector, terminals 1-4.

Once the connection between the Hand Terminal and the ES-A control has been completed, the unit is ready to operate and the "Start Menu" appears in the display.

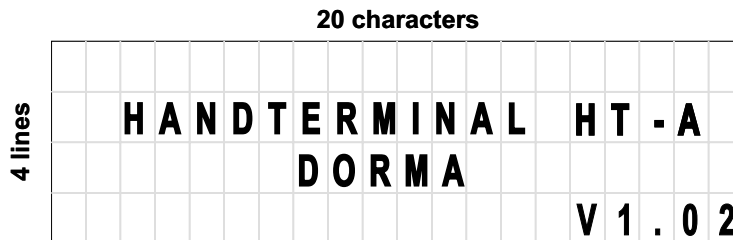


Fig. 1 "Start menu" display

Functional description

Operation is guided by an easy comprehensible and clearly arranged menu structure with the operator being prompted through the various stages and menu groups by means of a step-by-step dialogue.

Keypad and key functions (see also Fig. 2)

A specific menu item can be called up by entering the corresponding numeric sequence. If a menu has more sub-items than can be shown in the display (4 lines at 20 columns), an arrow appears in the bottom right hand corner of the display (>) to indicate that further display pages are available for viewing. The menu pages are consecutively numbered and the appropriate number appears in the top right hand corner of the display. The arrow keys serve to display the previous or next page within a menu.

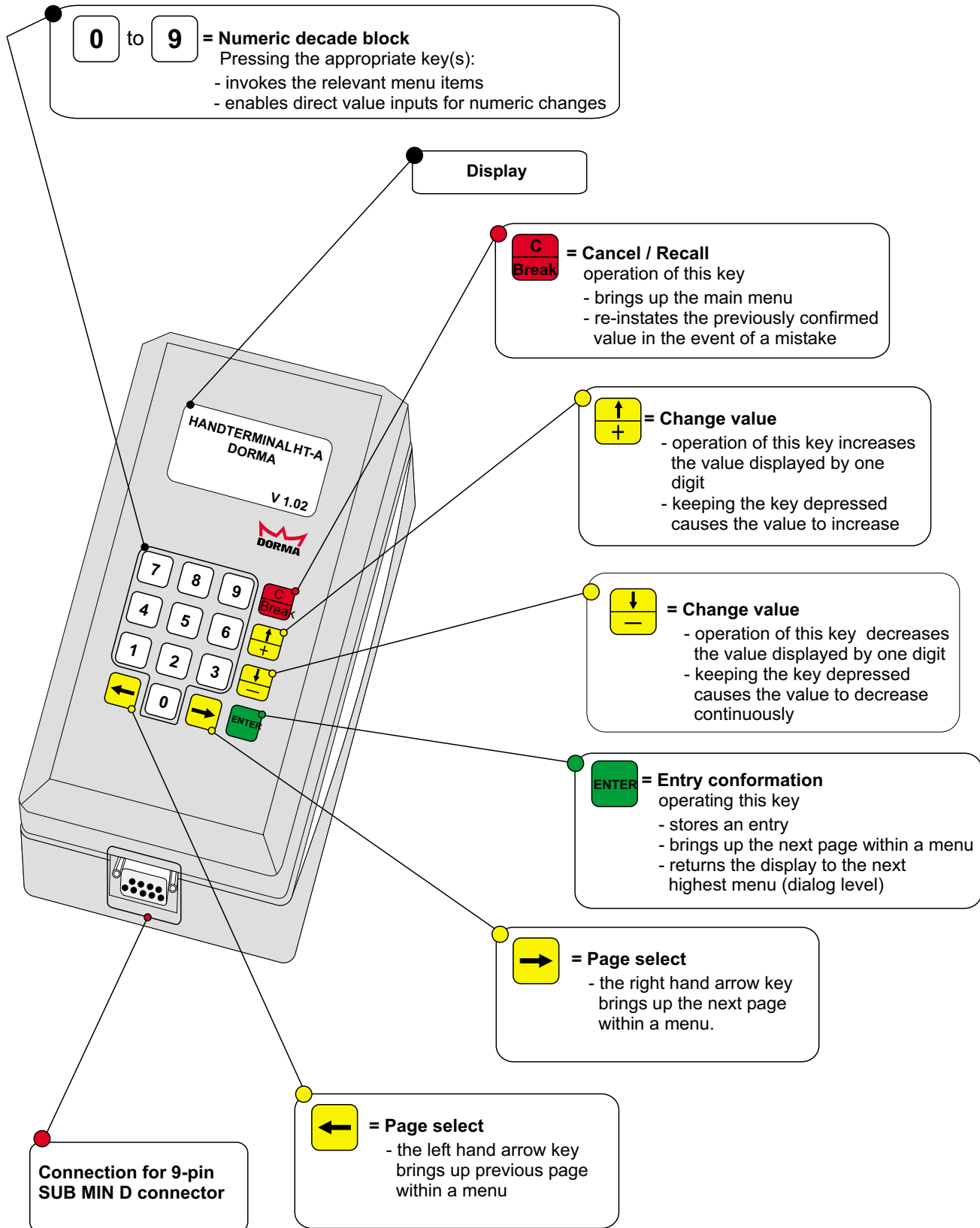
Values can be changed either directly using the keypad or by operating the + sign and - sign keys (+ sign increases the value by one digit; - sign decreases the value by one digit).

Operation of the C/BREAK key immediately returns the user to the main menu regardless of the current page. The C/BREAK key can also be used to implement a "recall" (reinstates previous value) function.

Warning! "Recall" function only available if new input has not yet been confirmed with ENTER.

Thus, if you have made a mistake when entering a value, you can re-instate the original value by pressing the C/BREAK key.

The ENTER key has several functions. Essentially, its main function is to confirm each entry. This means that any change implemented in the Hand Terminal is only accepted if the ENTER key has been pressed to confirm. This then initiates transmission of the change to the control system where it is stored as a new setting. The ENTER key can also be used to change pages within a menu or as the return button, but it will only take you to the next highest menu (dialogue level).



DORMA Hand Terminal HT-A

Main Menu

The main menu is subdivided into 10 submenus 0 to 9 (see Main Menu diagram). These 10 submenus take up to 4 pages due to the limited space available in the Hand Terminal display.

Selecting a function

Press the number (0 to 9) corresponding to the function menu you wish to access. The selected function menu is called up and appears in the display.

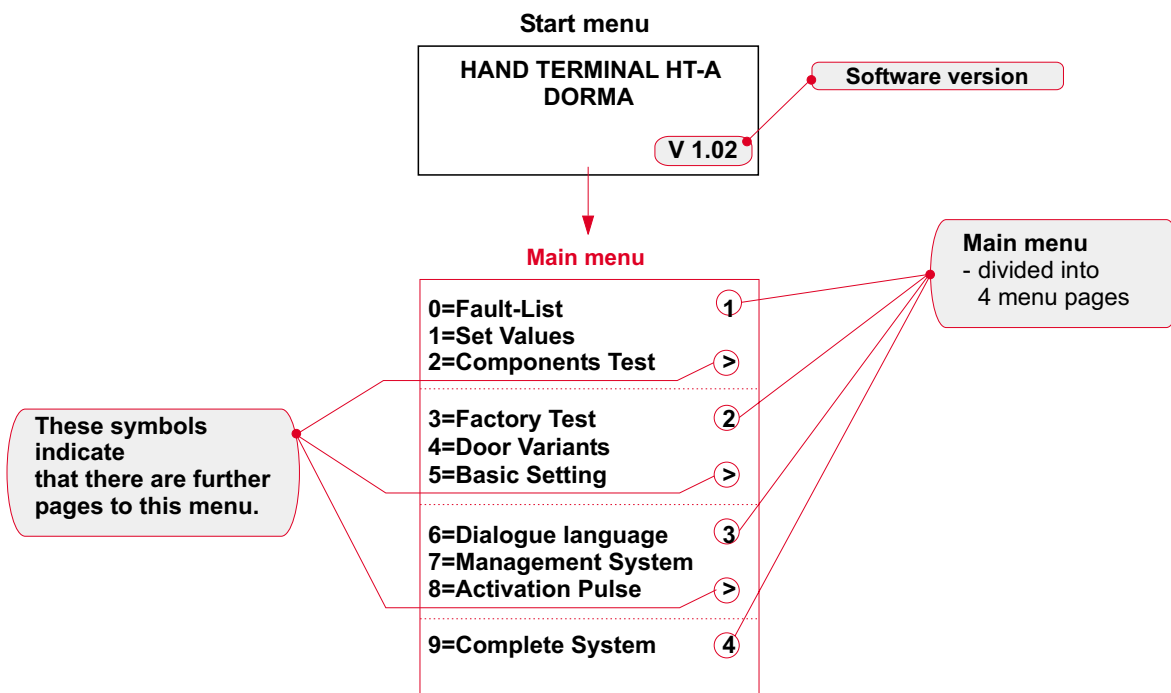
All these function menus are subdivided into one or several submenus. The submenu for the function you require can be called up either by pressing the appropriate numeric key or by scrolling using the arrow keys.

Caution! Only applies to main menu!

In the **Main menu**, numeric key 8 is defined as a function key, and when pressed will initiate an opening signal.

In the **Main menu**, numeric key 9 is exclusively used for calling up the primary system data.

Main menu structure

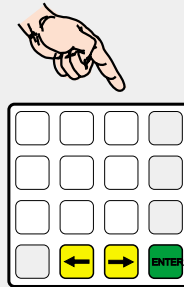


Example: Scrolling through all the pages of the main menu.

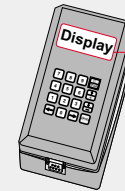
Requirement:

The Hand Terminal has been connected and the start menu appears in the display.

Key sequence



Display



Description:

**HAND TERMINAL HT-A
DORMA
V 1.02**

1. Press **ENTER** key
- the **Main menu** is called up in the display



- MAIN MENU - 1
0=FAULT LIST
1=SET VALUES
2=COMPONENTS TEST >

2. Press the **right hand arrow** key
- the second page of the main menu is shown in the display.



- MAIN MENU - 2
3=FACTORY TEST
4=DOOR VARIANTS
5=BASIC SETTING >

3. Press the **right hand arrow** key
- the third page of the main menu is shown in the display.



- MAIN MENU - 3
6=DIALOGUE LANGUAGE
7=MANAGEMENT SYSTEM
8=ACTIVATION PULSE >

4. Press the **right hand arrow** key
- the fourth page of the main menu is shown in the display.



- MAIN MENU - 4
9=COMPLETE SYSTEM

5. Press the **left hand arrow** key
- the previous page of the main menu is shown in the display.



- MAIN MENU - 3
6=DIALOGUE LANGUAGE
7=MANAGEMENT SYSTEM
8=ACTIVATION PULSE >

DORMA Hand Terminal HT-A

0

Menu 0 - Fault List

Fault message in main text

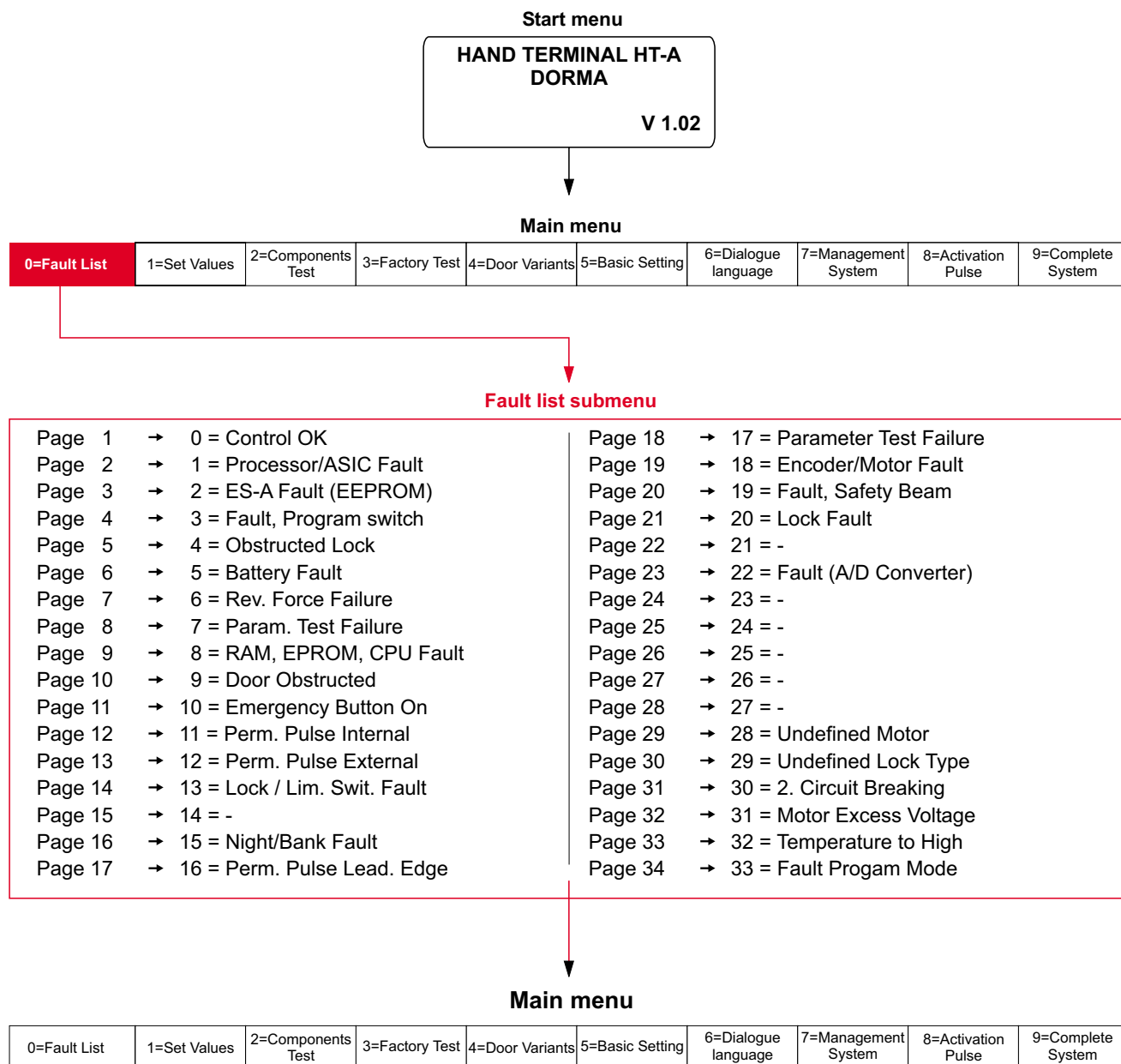
The fault list is provided as an aid to trouble-shooting.

In the function menu **0 = Fault List**, 34 possible faults (0 to 33) are listed on 34 menu pages (1-34).

The fault is described in short-hand plain text. The listed faults exclusively constitute maybe faults, and the cause for a malfunction may thus lie elsewhere.

The fault list is not exclusive or exhaustive and should only be regarded as a guide

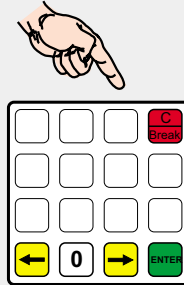
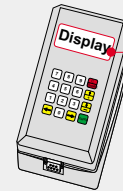
Summary of menu structure: Menu item "0=Fault list"



Example: Select a fault from the fault list.
 In menu **2=Testing** and its associated submenu **2=Fault display**, the displays shows
Fault OLD 1 =12 (PERM. PULSE EXTERNAL)

Requirement:

The Hand Terminal has been connected and the start menu is shown in the display.

Key sequence

Display

Description

**HAND TERMINAL HT-A
DORMA
V 1.02**

1. Press **ENTER** key
 - the first page of the **Main menu** appears in the display



- MAIN MENU - 1
0=FAULT LIST
1=SET VALUES
2= COMPONENTS TEST >

2. Press **numeric key 0**
 - the first page of the menu **Fault list** appears in the display



- FAULT LIST - 1
0=CONTROL OK
>

3. Press **right hand arrow** key
 - the second page of the menu **Fault list** appears in the display



- FAULT LIST - 2
1=PROCESSOR/ASIC
FAULT
>

4. Press **right hand arrow** key
 - the third page of the menu **Fault list** appears in the display



- FAULT LIST - 3
2= ES-A FAULT (EEPROM)
>

5. Press **left hand arrow** key
 - the second page of the menu **Fault list** appears again in the display.
Right hand arrow key calls up next page.
Left hand arrow key calls up previous page.



- FAULT LIST - 2
1=PROCESSOR/ASIC
FAULT
>

6. Press **C/Break** key
 - the first page of the **Main menu** appears in the display.



- MAIN MENU - 1
0=FAULT LIST
1=SET VALUES
2=COMPONENTS TEST >

DORMA Hand Terminal HT-A

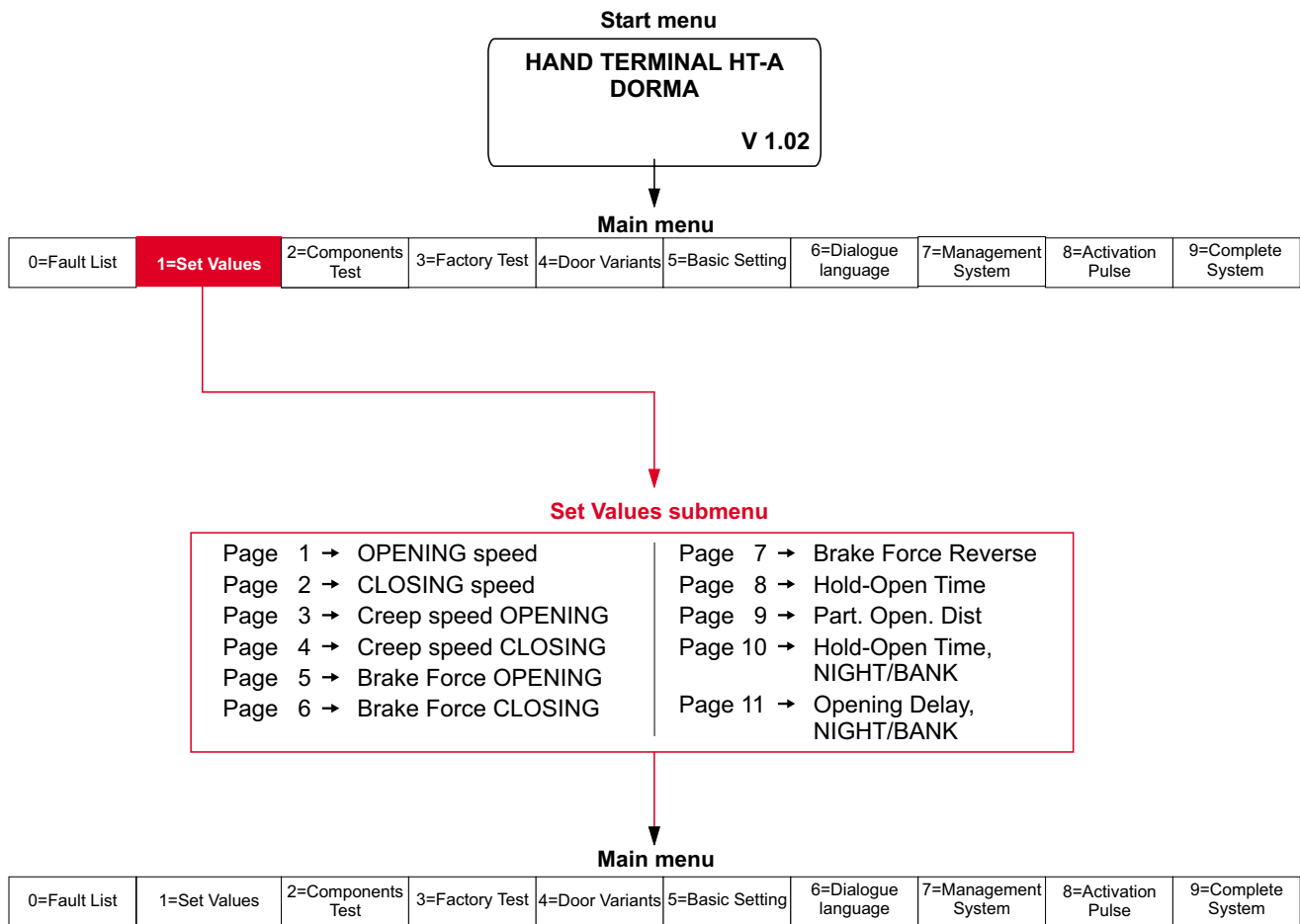
1 Menu 1- Set Values

In the **Set Values** function menu, the factory-set standard settings can be optimised. Here, for example, the speeds and the opening and closing times can be finely adjusted to suit individual and local conditions.

The current settings are shown in the display. These values can either be directly modified by entering the required numerical values, or increased and decreased using the +/- keys. All the values shown in the display are percentages.

Changes to the lockout setting are only accepted by the control unit once the new setting has been confirmed by pressing the ENTER key and the door has completed an opening and closing cycle. The new settings are not saved until the door is in its open position

Summary of menu structure: Menu item "1 = Set Values"



DORMA Hand Terminal HT-A

2 Menu 2 - Components Test

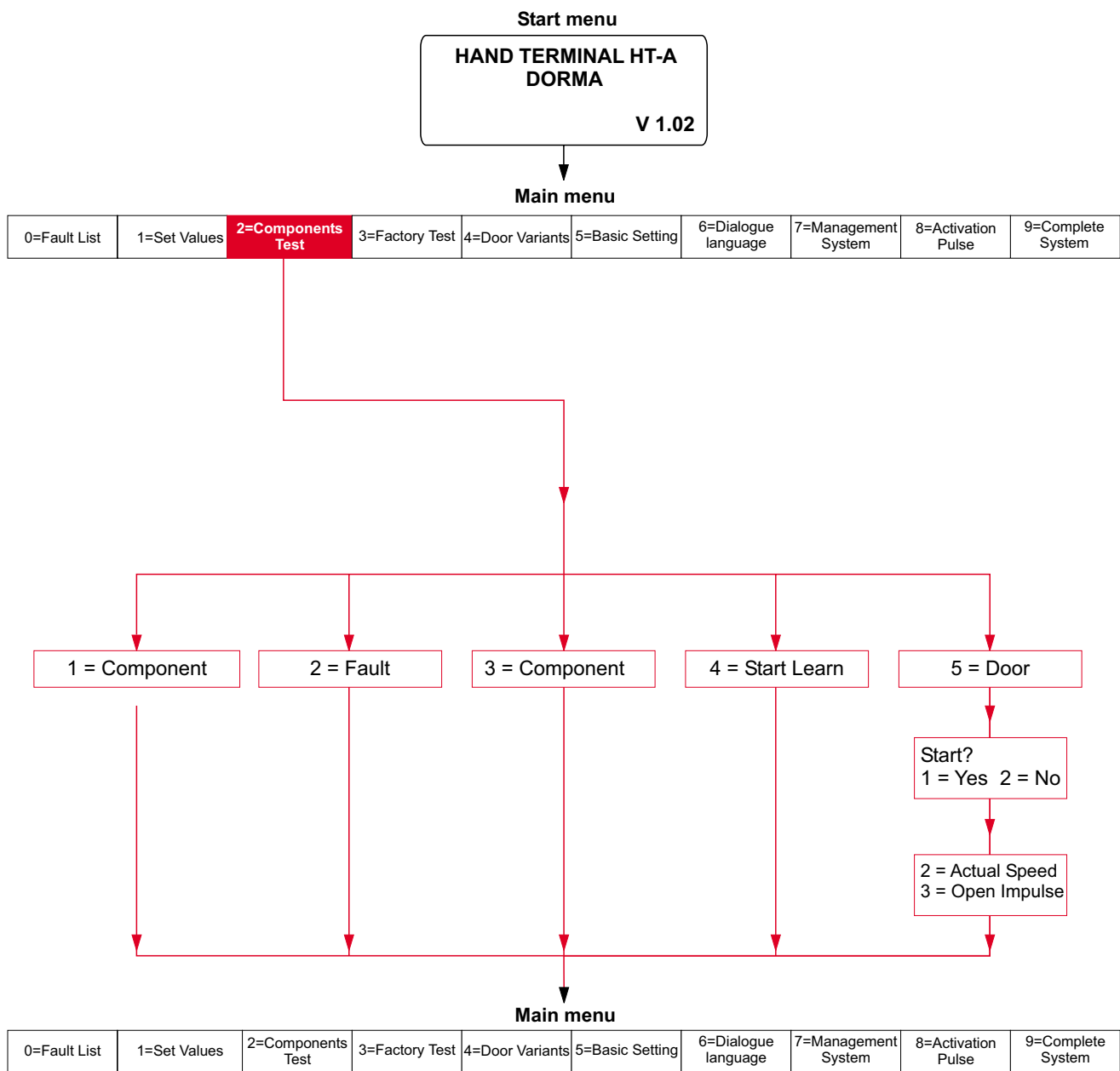
The **2 = Components Test** menu is a pure display and test directory. It branches into the following submenus:

- Components Display
- Fault Display
- Component Test
- Start Learn Cycle
- Door Obstruction
- submenu "Start"
- submenu "Actual Speed/ Open Impulse"

The submenus show the components that are connected, and enable these to be tested. The **Fault display** submenu lists the three last faults to have occurred (Old 1 to Old 3).

The Start submenu is a help menu. If a check run is initiated, the display shows the current speed, and if the door is operating correctly and fault-free, the speed value remains constant. If the door is not running freely or is rubbing, the speed value will fluctuate.

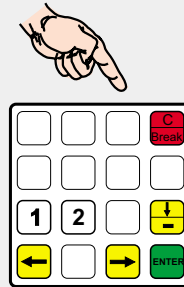
Summary of menu structure: Menu item "2 = Components Test"



Example: In the 2 = Components Test menu, access the Components submenu.
 Determine which components have been connected.
 Which lock has been connected or not, and which motor is installed.

Requirement

The Hand Terminal has been connected and the start menu is shown in the display.

Key sequence

Display

Description:

1. Press **ENTER** key
 - the first page of the **Main menu** appears in the display.

2. Press **numeric key 2**
 - the first page of the menu **Components Test** appears in the display.

3. Press **numeric key 1**
 - the first page of the submenu **Components display** appears in the display.

4. Press **right hand arrow** key
 - the second page of the submenu **Components display** appears in the display.
 All the other pages of the submenu can be called up either using the appropriate arrow keys or the numeric key.

6. Press **C/Break** key
 - the first page of the **Main menu** appears again in the display.

**HAND TERMINAL HT-A
 DORMA**

V 1.02

- MAIN MENU - 1
 0=FAULT LIST
 1=SET VALUES
 2=COMPONENTS TEST >

- CompTest/Fault Disp. 1
 1=COMPONENTS DISPL.
 2=FAULT DISPLAY
 3=COMPONENT TEST

- COMPONENTS DISPL. - 1
 6= i.e. PROGRAM PANEL
 BI. ST. LOCKING >

- COMPONENTS DISPLAY - 2
 BATTERY NOT CONNECT.
 MOTOR=ES-A/100 >

- MAIN MENU - 1
 0=FAULT LIST
 1=SET VALUES
 2=COMPONENTS TEST >

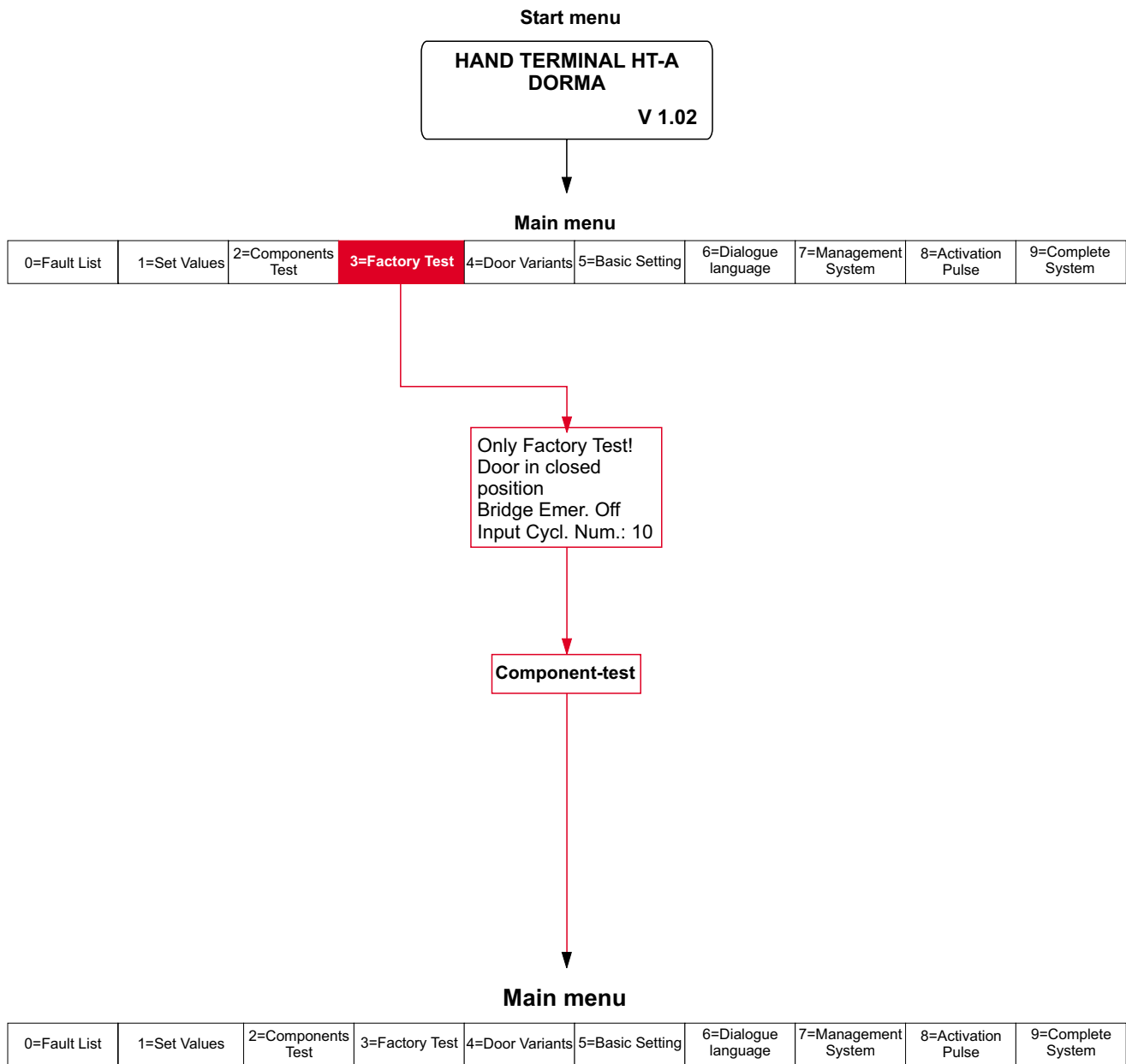
DORMA Hand Terminal HT-A

3 Menu 3 - Factory Test

Menu item 3 = Factory Test is an internal test program.
Warning! Only for factory testing.

Controls without a back-up battery pack or back-up battery module:
 In the emergency-off test, the fault EMERGENCY-OFF TEST FAULT is displayed because there is no back-up battery pack to open the door. The door must be opened by hand in order to avoid this fault message

Summary of menu structure: Menu item "3 = Factory Test"

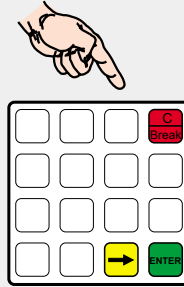


Only for factory test

Requirement:

The Hand Terminal has been connected and the start menu is shown in the display.

Key sequence



Display



Description:

HAND TERMINAL HT-A
DORMA
V 1.02

1. Press **ENTER** key
- the first page of the **Main menu** appears in the display.



- MAIN MENU - 1
0=FAULT LIST
1=SET VALUES
2=COMPONENTS TEST >

2. Press **numeric key 3**
- the first page of the menu **Initial test** appears in the display.



- MAIN MENU - 2
3=FACTORY TEST
4=DOOR VARIANTS
5=BASIC SETTING >

3. Press **right hand arrow** key
- the second page of the menu **Initial test** appears in the display.
All the other pages of the menu can be called up using the appropriate arrow keys.



- FACTORY TEST - 3
ONLY FACTORY TEST!
DOOR IN CLOSED POS.
BRIDGE EMER. OFF >

4. Press **C/Break** key
- the first page of the **Main menu** appears in the display again.



- MAIN MENU - 1
0=FAULT LIST
1=SET VALUES
2=COMPONENTS TEST >

DORMA Handterminal HT-A

4

Menu 4 - Door Variants

Using menu item **4 = Door Variants**, various door types can be selected, thus automatically invoking factory-preset parameters. Once a door type has been selected and confirmed by pressing the ENTER key, the data is automatically loaded into the control. Subsequent adjustments are still possible.

In the **Special additional parameter adjustment** submenu, various special functions and door parameters can be set, and these are listed in the menu summary.

In the **Special unit** submenu, specific functions can be entered to customise the system and these are also listed in the menu summary.

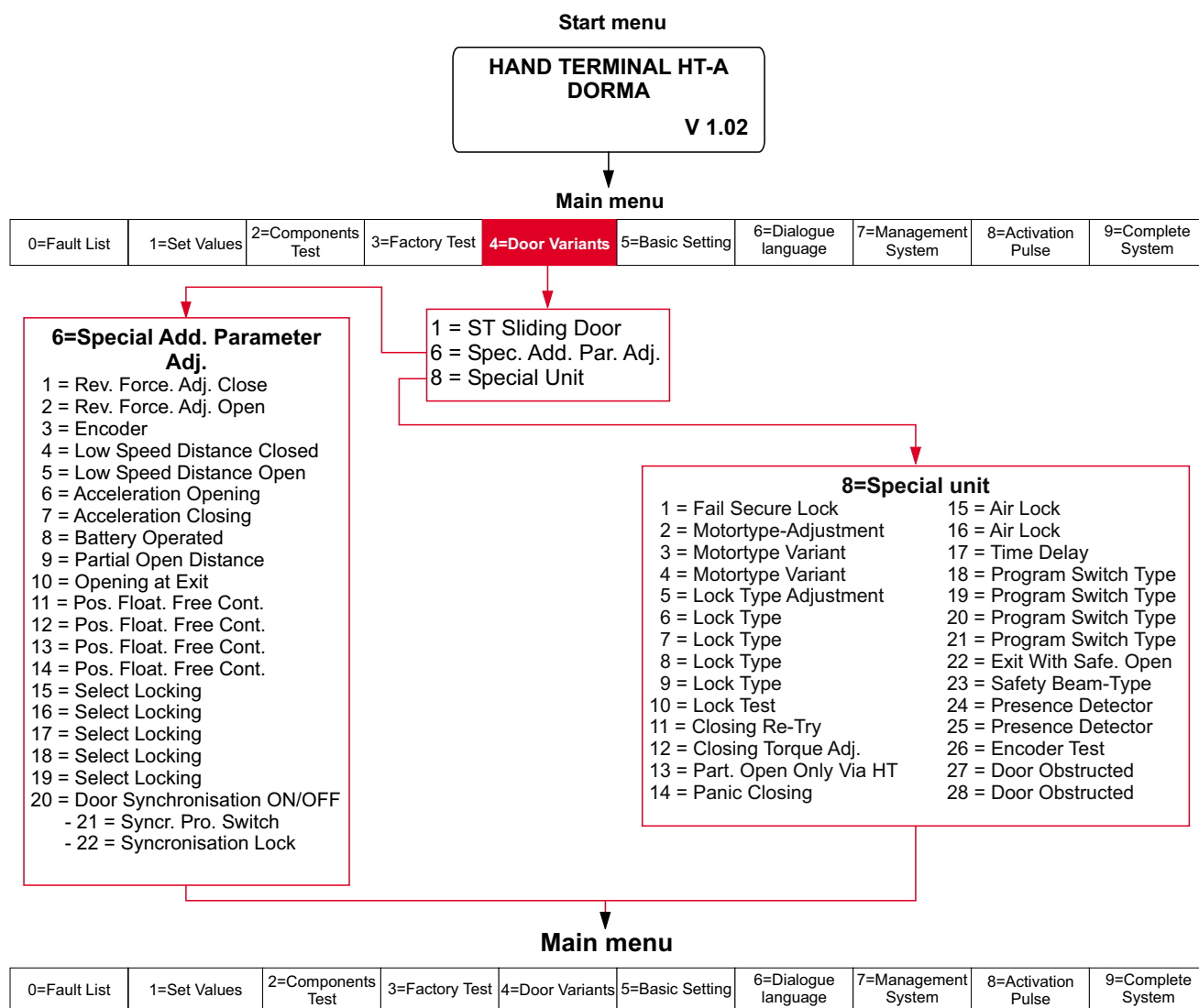
Force limitation: At values below 30%, it is possible that heavy doors will no longer operate.

Only Factory!

Incremental encoder: If the incremental encoder is mounted on the return pulley, proceed as follows:

1. Push door to its CLOSED position
2. Connect Hand Terminal
3. Connect power supply (insert mains plug)
4. In the submenu **Special controls** on menu page 5, set incremental encoder to **0 = Return pulley**
5. Perform learn cycle
6. Set door parameters

Summary of menu structure: Menu item "4 = Door Variants"

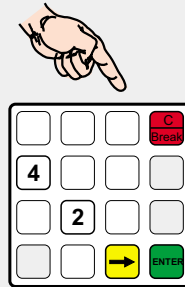


Example: Select function menu 4 = Door Variants, and then select **Sliding Door (ST)**.

Requirement:

The Hand Terminal has been connected and the (start menu) is shown in the display.

Key sequence



Display



Description:

1. Press **ENTER** key
- the first page of the **Main menu** is shown in the display.



**HAND TERMINAL HT-A
DORMA
V 1.02**

- MAIN MENU - 1
0=FAULT LIST
1=SET VALUES
2=COMPONENTS TEST >

2. Press **right hand arrow** key
- the second page of the **Main menu** appears in the display.



- MAIN MENU - 2
3=FACTORY TEST
4=**DOOR VARIANTS**
5=BASIC SETTING >

3. Press **numeric key 4**
- the first page of the menu **Door Variants** appears in the display.
All the other pages of the menu can be called up using the appropriate arrow keys.



- DOOR VARIANTS - 1
1=ST SLIDING DOOR
6=SPEC. ADD. PAR. ADJ.
8=SPECIAL UNIT

4. Press **numeric key 2**
- The standard factory settings for ST Sliding Doors are automatically loaded.
All the other pages of the menu can be called up using the appropriate arrow keys.



- DOOR VARIANTS - 1
1=ST SLIDING DOOR
6=SPEC. ADD. PAR. ADJ.
8=SPECIAL UNIT

5. Press **C/Break** key
- the first page of the **Main menu** appears again in the display.



- MAIN MENU - 1
0=FAULT LIST
1=SET VALUES
2=COMPONENTS TEST >

DORMA Handterminal HT-A

5 Menu 5- Basic Setting

The **5 = Basic Setting** menu branches into several submenus.
The last stored door type is indicated in the display.

The **New Adjustment** submenu branches into **Basic Parameters** and **Copy Function**.

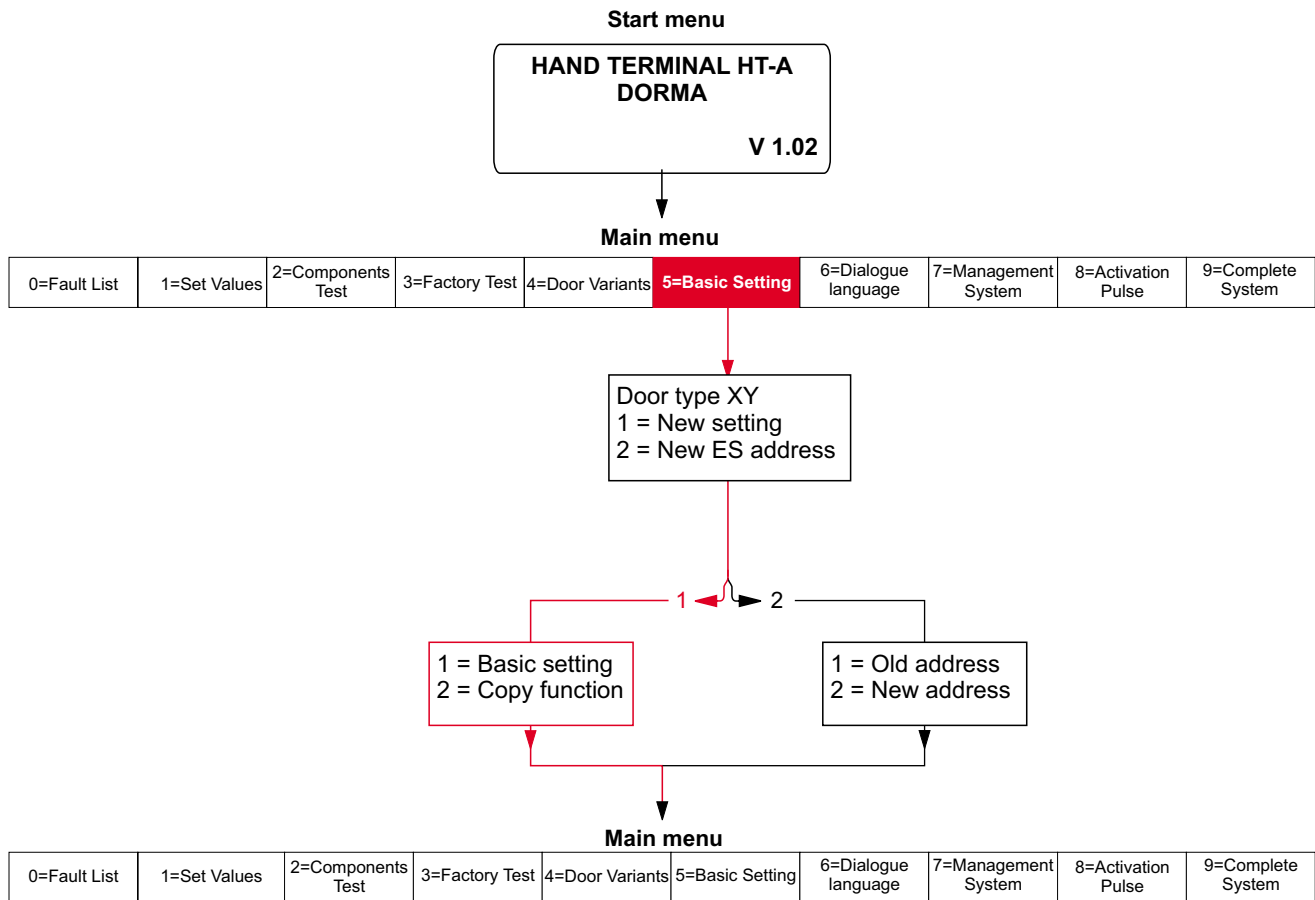
Basic Parameters: The basic factory settings for the door types are stored in the Hand Terminal.
Pressing numeric key 1 directly copies these basic settings to the basic module (EEPROM).
The display in the Hand Terminal then shows **Copy Function - Transfer - Successful**, indicating that the parameters have been successfully transferred.

Copy function: Pressing numeric key 2 calls up the **Copy Function** submenu in the display.

- Copy function 1 = Parameter transfer BM >>> HT**
The parameters stored in the basic module (BM) are copied to the Hand Terminal.
The display in the Hand Terminal then shows:
Copy function successfully performed.
- Copy function 2 = Parameter transfer HT >>> BM**
The parameters stored in the Hand Terminal are copied to the basic module (BM).
The display in the Hand Terminal then shows:
Copy function successfully performed.

Submenu 2 = New Operator Number is described in detail on pages 24 and 25.

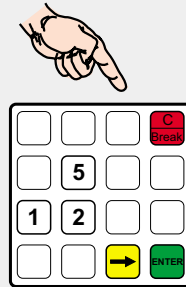
Summary of menu structure: Menu item "5 = Basic Setting"



Example: Perform a copy function.
In the Basic setting submenu **1=New Adjustment**, select functions 1 or 2 to perform the copy function.

Requirement:

The Hand Terminal has been connected and the start menu is shown in the display.

Key sequence

Display

Description:

**HAND TERMINAL HT-A
DORMA**
V 1.02

1. Press **ENTER** key
- the first page of the **Main menu** appears in the display.



- MAIN MENU - 1
0=FAULT LIST
1=SET VALUES
2=COMPONENTS TEST >

2. Press **right hand arrow** key once
- the second page of the **Main menu** appears in the display.



- MAIN MENU - 2
3=FACTORY TEST
4=DOOR VARIANTS
5=BASIC SETTING >

3. Press **numeric key 5**
- the first page of the menu **Basic setting** appears in the display.



- COPY FUNCTION - 1
DOOR VARIANTS: ST
1=NEW ADJUSTMENT
2=NEW OPER. NUMBER >

4. Press **numeric key 1**
- the second page of the menu **Basic setting** appears in the display



- COPY FUNCTION - 2
DOOR TYPE: ST
1=BASIC PARAMETERS
2=COPY FUNCTION >

5. Press numeric key **2**
- the **Copy function** appears in the display.
Pressing **numeric key 1 or 2** implements the desired copying direction.
The copying operation and its successful completion are indicated in the display.
The confirm with **ENTER**.



- COPY FUNCTION - 3
COPY FUNCTION
1=PARAMETER BM>>>HT
2=PARAMETER HT>>>BM>

1 or 2



- COPY FUNCTION - 4
-COPY FUNCTION-
TRANSFER
SUCCESSFULL

6. Press **C/Break** key
- the first page of the **Main menu** appears again in the display.



- MAIN MENU - 1
0=FAULT LIST
1=SET VALUES
2=COMPONENTS TEST >

DORMA Hand Terminal HT-A

5 Menu 5- Basic Setting

The **5 = Basic settings** menu branches into several submenus.
The last stored door type is indicated in the display.

The **New ES address** submenu is a selection menu showing the addresses for the bus devices.

New ES address: ES 0

Pressing the keys causes the addresses in the selection list to be displayed.

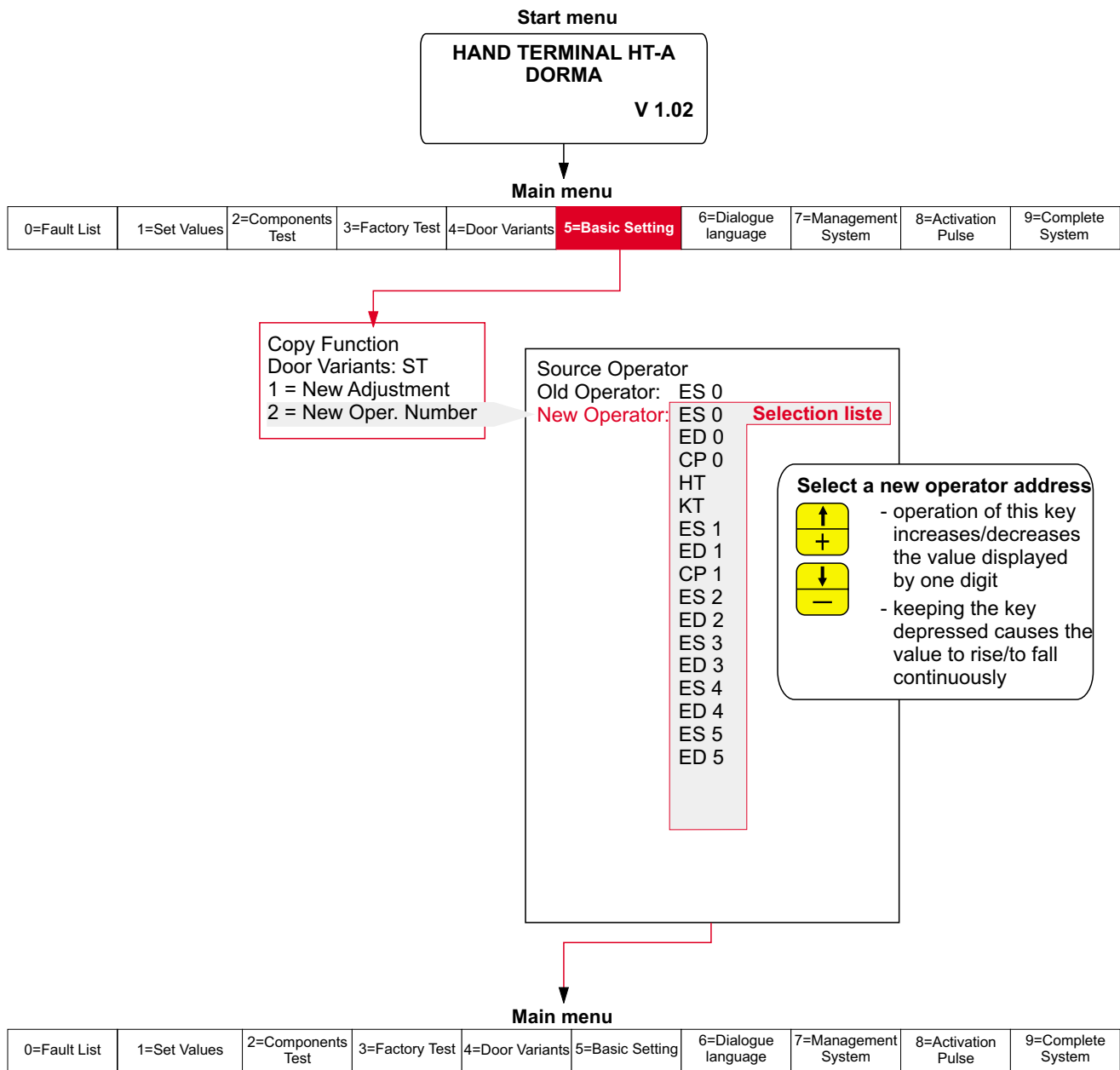
A discrete address must be assigned to each bus device (see example, page 25).
The address must be confirmed using the ENTER key.

Display then shows:

Setting successfully modified.

Each additional bus device must be assigned a new address, and each address must be different.

Summary of menu structure: Menu item "5 = Basic Setting"



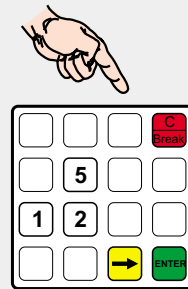
Example: Address assignment.

In the **Basic Setting** menu, a bus destination address can be assigned using the selection list where several systems are connected to one bus system.







e.g. 2 door sets

Requirement:

The Hand Terminal has been connected and the start-menu is shown in the display.

Key sequence

Display

Description:


		<div style="border: 1px solid black; padding: 5px; text-align: center;"> HAND TERMINAL HT-A DORMA V 1.02 </div>
1. Press ENTER key - the first page of the Main menu is appears in the display.		<div style="border: 1px solid black; padding: 5px;"> - MAIN MENU - 1 0=FAULT LIST 1=SET VALUES 2=COMPONENTS TEST > </div>
2. Press right hand arrow key once - the second page of the Main menu appears in the display.		<div style="border: 1px solid black; padding: 5px;"> - MAIN MENU - 2 3=FACTORY TEST 4=DOOR VARIANTS 5=BASIC SETTING > </div>
3. Press numeric key 5 - the first page of the menu Basic Setting appears in the display.	<div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;">5</div>	<div style="border: 1px solid black; padding: 5px;"> - COPY FUNCTION - 1 DOOR VARIANTS: ST 1=NEW ADJUSTMENT 2=NEW OPER. NUMBER > </div>
4. Press numeric key 2 - the first page of the menu is shown in the display with -New ADDRESS: ES 0. Press the ENTER key. The first drive unit/operator is stored with the destination address ES 0. Display shows: -Setting successfully changed	<div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;">2</div> 	<div style="border: 1px solid black; padding: 5px;"> - SOURCE OPERATOR - 1 OLD OPERATOR: ES 0 NEW OPERATOR: ES 0 SAVE <ENTER> > </div>
5. Press the up arrow until the display shows - New Address: ES 0. Then continue as indicated in point 4. Press the ENTER key. The second drive unit is stored with the destination address ES 1. All additional bus devices are allocated an address in the same manner.	 	<div style="border: 1px solid black; padding: 5px;"> - SOURCE OPERATOR - 1 OLD OPERATOR: ES 0 NEW OPERATOR: ES 1 SAVE <ENTER> > </div>
		<div style="border: 1px solid black; padding: 5px;"> - SOURCE OPERATOR - 2 SETTING SUCCESSFULLY CHANGED </div>
6. Press C/Break key - the first page of the Main menu appears again in the display.		<div style="border: 1px solid black; padding: 5px;"> - MAIN MENU - 1 0=FAULT -LIST 1=SET VALUES 2=COMPONENTS TEST > </div>

DORMA Hand Terminal HT-A

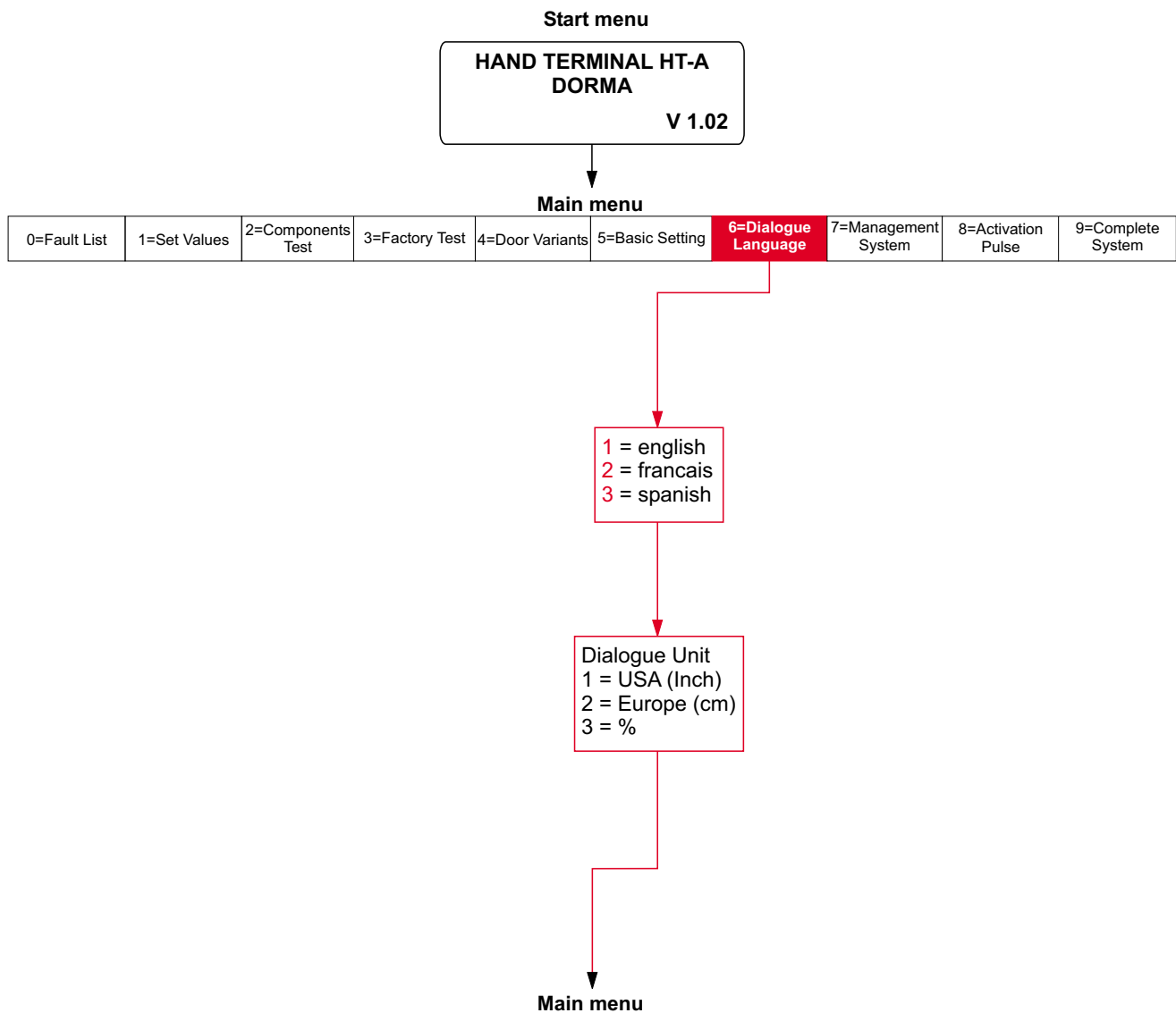
6 Menu 6- Dialogue Language

Menu 6 enables you to select the dialogue language which you require. There are three languages available and these are selected by entering numeric values 1 to 3. Once the requisite numeric key has been operated, the display returns to the main menu where the text message in the display should now appear in the dialogue language selected.

Choice of unit,- cm/sek. - Inch/sec. or % :
In subdirectory **choice of dialogue language**

 Press button, subdirectory **choice of unit** appears in display, choose unit and confirm with **Enter**.

Summary of menu structure: Menu item "6 = Dialogue language"



0=Fault List	1=Set Values	2=Components Test	3=Factory Test	4=Door Variants	5=Basic Setting	6=Dialogue language	7=Management System	8=Activation Pulse	9=Complete System
--------------	--------------	-------------------	----------------	-----------------	-----------------	---------------------	---------------------	--------------------	-------------------

Example: Select the dialogue language under Point 6 in the Main menu.

Requirement:

The Handterminal has been connected and the start menu is shown in the display.

Key sequence



Display



Description:

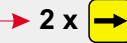
HAND TERMINAL HT-A
DORMA
V 1.02

1. Press the **ENTER** key
- the first page of the **Main menu** appears in the display.



- MAIN MENU - 1
0=FAULT LIST
1=SET VALUES
2=COMPONENTS TEST >

2. Press **numeric key 2** twice
- the third page of the **Main menu** appears in the display.



- MAIN MENU - 3
6=DIALOGUE LANGUAGE
7=MANAGEMENT SYSTEM
8=ACTIVATION PULSE >

3. Press **numeric key 6**
- the menu dialogue language appears in the display.



- MAIN MENU - 1
1=ENGLISH 2=FRANCAIS
3=SPANISH
INPUT? <1

4. The dialogue language required is selected by entering the appropriate numeric value.
1 for English 2 for Francais 3 for Spanish
Select the dialogue language and then confirm using the **ENTER** key.
The display automatically returns to the first page of the **Main menu** which is now shown in the **selected dialogue language**.



- MAIN MENU - 2
1=ENGLISH 2=FRANCAIS
3=SPANISH
INPUT? <

- DIALOGUE LANGUAGE -3
SAVE NEW
DIALOGUE LANGUAGE
INTERNALLY

Selection of dialogue unit:

Press right hand arrow key to skip to the second page of the menu.
Enter appropriate number
1 = Inch/sec., 2 = CM/sek., 3 = %



- DIALOGUE-UNIT - 2
1=USA (INCH) 3=%
2=EUROPA (CM)
INPUT ? <1..3> >

6. Press **C/Break** key
- the first page of the **Main menu** appears again in the display.



- MAIN MENU - 1
0=FAULT LIST
1=SET VALUES
2=COMPONENTS TEST >

DORMA Hand Terminal HT-A

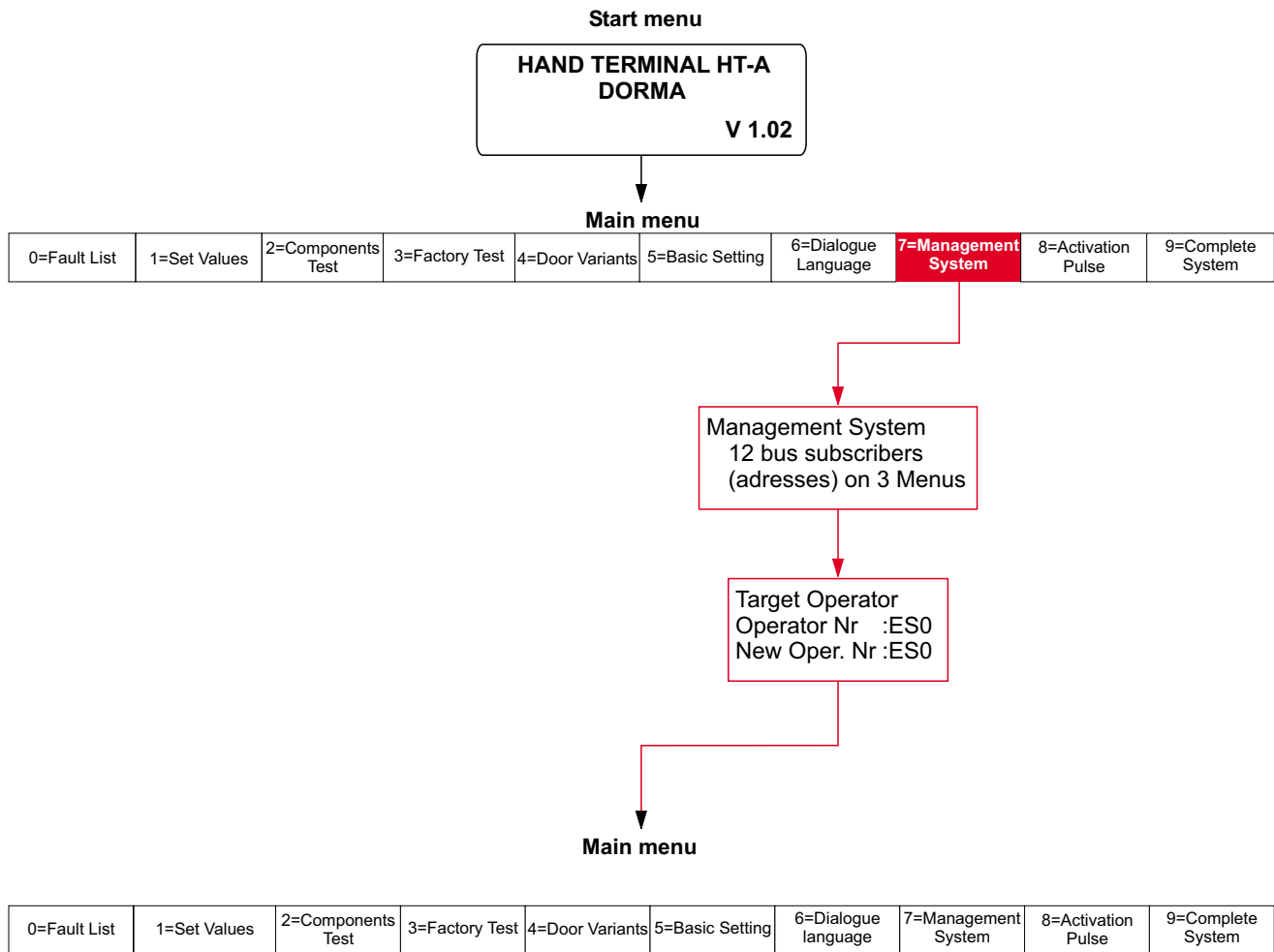
7 Menu 7 - Management System

Menu item 7 comprises 3 pages showing all the bus subscribers which are connected to the system. The destination subscriber submenu is a selection menu in which each of the individual bus subscribers can be directly accessed. Each bus subscriber must be accessed using its discrete address (see selection list page 24)).

Where there are several devices in a bus system, the systems can be called up or adjusted from each bus device. For this, the HT bus destination address must be appropriately converted. Once the Hand Terminal has been connected to the control unit using the cable provided, the Hand Terminal always first interrogates the system/control unit with the destination address ES0.

If the Hand Terminal is connected to a control unit which does not have the address ES0, the Hand Terminal will not be able to read the system parameters. The destination address must first be changed.

Summary of menu structure: Menu item "7 = Management System"

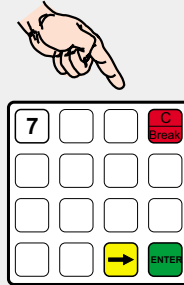


Example: Interrogation or addition of a bus device from the Main menu, submenu 7.

Requirement:

The Hand Terminal has been connected and the start menu is shown in the display

Key sequence



Display



Description:

1. Press **ENTER** key
- the first page of the **Main menu** appears in the display.

2. Press **right hand arrow** key twice
- the third page of the **Main menu** appears in the display.

3. Press **numeric key 7**
- the first page of the menu **Management System** appears in the display.
The **Management System** submenu is a list which shows the bus devices (max. 12) on three pages.

By scrolling three times using the arrow keys, the target device can be directly interrogated.
The bus devices are displayed and the destination address can then be modified using the HT. It is possible to access any of the bus devices in order to view or modify their parameter settings.
The bus device concerned must be interrogated using its correct discrete address.

5. Press **C/BREAK** key
- the first page of the **Main menu** appears in the display again.

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- MAIN MENU - 1
0=FAULT LIST
1=SETVALUES
2=COMPONENTS TEST >

- MAIN MENU - 3
6=DIALOGUE LANGUAGE
7=MANAGEMENT SYSTEM
8=ACTIVATION PULSE >

- MANAGMENT SYSTEM - 1
1=ES 0 3=---
2=HT 4=--- >

- TARGET OPERATOR - 1
OPERATOR NR.: ES 0
NEW OPER NR.: ES 0

- MAIN MENU - 1
0=FAULT LIST
1=SET VALUES
2=COMPONENTS TEST >

DORMA Hand Terminal HT-A

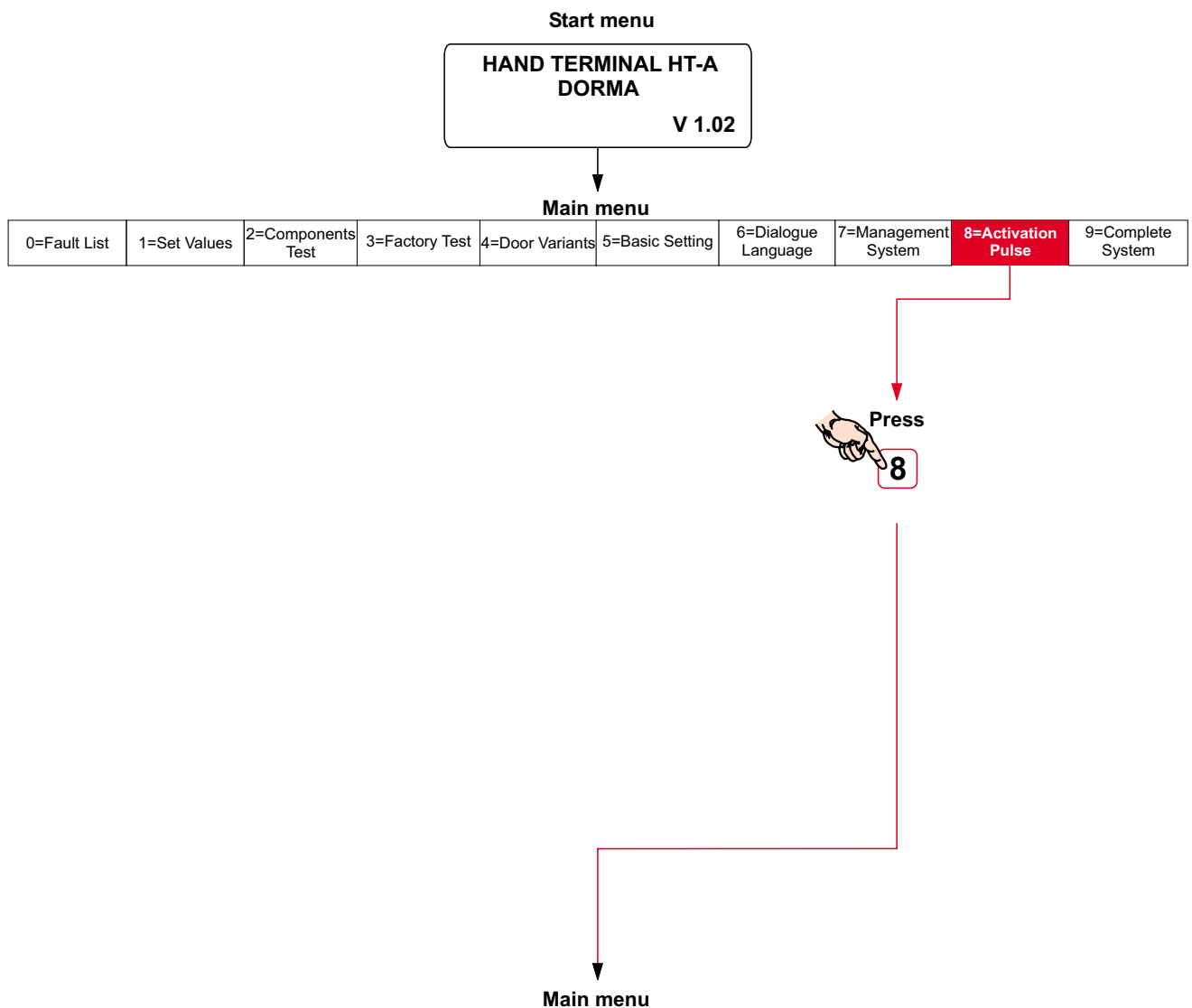
8

Menu 8 - Activation Pulse

Warning! Only applies to the Main menu.

If the **Main menu** is active (i.e. being shown in the display), pressing numeric key **8** will initiate an opening signal corresponding to that emitted by an internal activator/detector.

Summary of menu structure: Menu item "8 = Activation Pulse"

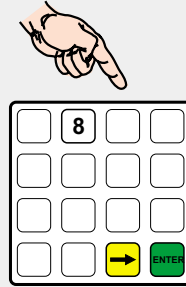


0=Fault List	1=Set Values	2=Components Test	3=Factory Test	4=Door Variants	5=Basic Setting	6=Dialogue language	7=Management System	8=Activation Pulse	9=Complete System
--------------	--------------	-------------------	----------------	-----------------	-----------------	---------------------	---------------------	--------------------	-------------------

Example: Initiating an opening signal from the Main menu using numeric key 8.
 An opening pulse can be initiated either by calling up the **Main menu** and then pressing key 8, or by scrolling to the third page of the **Main menu** and then initiating the opening signal at **8**.

Requirement:

The Hand Terminal has been connected and the start-menu is shown in the display.

Key sequence

Display

Description:

1. Press **ENTER** key
 - the first page of the **Main menu** appears in the display.



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- MAIN MENU - 1
 0=FAULT LIST
 1=SET VALUES
 2=COMPONENTS TEST >

2. Press **numeric key 8**
 - Pressing **numeric key 8** initiates an opening signal, the door opens and closes once. The display automatically returns to the main menu.



- MAIN MENU - 1
 0=FAULT LIST
 1=SET VALUES
 2=COMPONENTS TEST >

or

1. Press **ENTER** key
 - the first page of the **Main menu** appears in the display.



- MAIN MENU - 1
 0=FAULT LIST
 1=SET VALUES
 2=COMPONENTTEST >

2. Press **right hand arrow** key
 - the second page of the **Main menu** appears in the display.



- MAIN MENU - 2
 3=FACTORY TEST
 4=DOOR VARIANTS
 5=BASIC SETTING >

3. Press **right hand arrow** key
 - the third page of the **Main menu** appears in the display.



- MAIN MENU - 3
 6=DIALOGUE LANGUAGE
 7=MANAGEMENT SYSTEM
 8=ACTIVATION PULSE >

4. Press **numeric key 8**
 - Pressing **numeric key 8** initiates an opening signal, the door opens and closes once. The display automatically returns to the main menu.



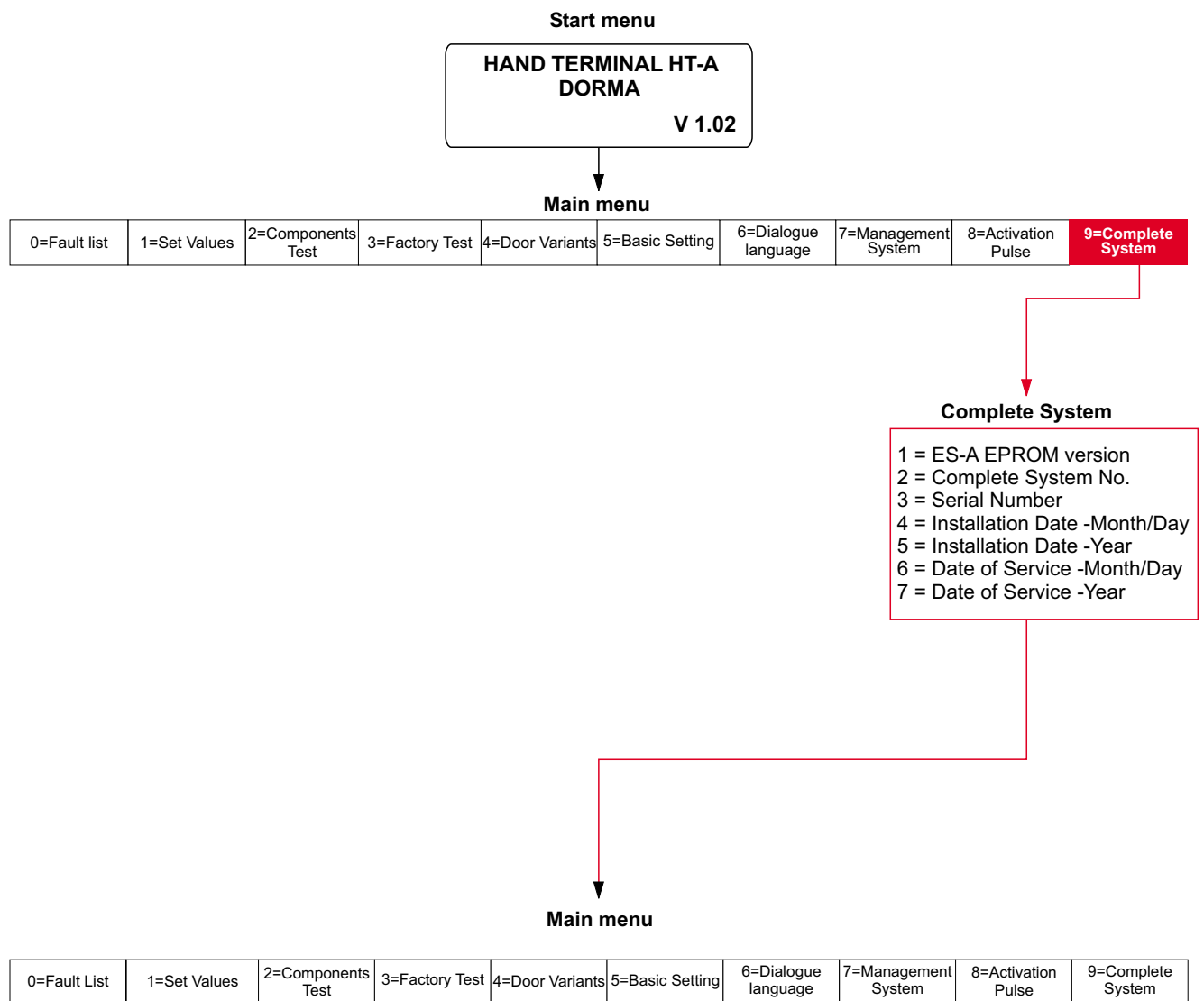
- MAIN MENU - 1
 0=FAULT LIST
 1=SET VALUES
 2=COMPONENTS TEST >

DORMA Hand Terminal HT-A

9 Menu 9 - Complete System

Under menu item 9 = complete system, system-specific data can be input and modified as required.
The number of the current ES-A EPROM version is displayed.

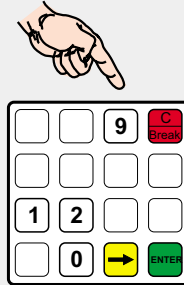
Summary of menu structure: Menu item 9 = Complete System



Example: Enter or modify the installation date (day/month) on page 4 of the Complete System menu.
Target date here: February 1, 2000.

Requirement:

The Hand Terminal has been connected and the start-menu is shown in the Display.

Key sequence

Display

Description:

1. Press **ENTER** key
- the first page of the **Main menu** appears in the display.

2. Press **numeric key 9**
- the first page of the menu **Complete System** appears in the display

3. Press **righthand arrow key four times**
- the fourth page of the menu **Complete System** appears in the display: **"Installation Date"**.

4. Press **numeric keys 0 2 0 1** in the sequence indicated.
- the display shows the entered numerals as the new installation date.
Confirm the entry with **ENTER**.

Press the **numeric keys** in the sequence **2 0 0 0**.
- The display now shows the numerical values as the new installation year.
Confirm the entry with **ENTER**.
The other pages in the menu can be called up using the arrow keys.

6. Press **C/Break** key
- the first page of the **Main menu** appears again in the display.

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- MAIN MENU - 1
0=FAULT LIST
1=SET VALUES
2=COMPONENTS TEST >

- COMPLETE SYSTEM - 1
ES-A: EPROM VERSION
= V 1.03
>

- COMPLETE SYSTEM - 4
INSTALLATION DATE
MONTH/DAY= .0
>

- COMPLETE SYSTEM - 4
INSTALLATION DATE
MONTH/DAY= 02.01
>

- COMPLETE SYSTEM - 5
INSTALLATION DATE
YEAR = 2000
>

- MAIN MENU - 1
0=FAULT LIST
1=SET VALUES
2=COMPONENTS TEST >

DORMA Hand Terminal HT-A

Main menu item 0 = Fault list - 1 Submenu (1)

① = Submenu, Fault list

- 0 = Control OK
- 1 = Processor / ASIC Fault
- 2 = ES-A Fault (EEPROM)
- 3 = Fault, Program Switch
- 4 = Obstructed Lock
- 5 = Battery Fault
- 6 = Rev. Force Failure
- 7 = Parameter Test Failure
- 8 = RAM / EPROM / CPU Fault
- 9 = Door obstructed
- 10 = Emergency Button On
- 11 = Perm. Pulse Internal
- 12 = Perm. Pulse External
- 13 = Lock Lim. Swit. Fault
- 14 = -
- 15 = Night/Bank Fault
- 16 = Perm. Pulse Lead. Edge
- 17 = Param. Test Failure
- 18 = Encoder/Motor Fault
- 19 = Fault, Safety Beam
- 20 = Lock Fault
- 21 = -
- 22 = Fault (A/D Converter)
- 23 = -
- 25 = -
- 26 = -
- 27 = -
- 28 = Undefined Motor
- 29 = Undefined Lock Type
- 30 = 2. Circuit Breaking
- 31 = Motor Excess Voltage
- 32 = Temperature To High
- 33 = Fault Program Mode

Fault list on 34 menu pages.
The listed faults exclusively constitute maybe faults and the cause for the malfunction may thus lie elsewhere.

The fault list is not exclusive or exhaustive and should only be regarded as a guide.

Pages 12 - 13

Main menu item 1 = Set Values - 1 Submenu (1)

① Submenu, Set Values

- 1 = OPENING Speed
- 2 = CLOSING Speed
- 3 = Creep Speed OPENING
- 4 = Creep Speed CLOSING
- 5 = Brake Force OPENING
- 6 = Brake Force CLOSING
- 7 = Brake Force Reverse
- 8 = Hold-Open Time
- 9 = Partial Open. Dist.
- 10 = Hold-Open Time, NIGHT/BANK
- 11 = Opening Delay, NIGHT/BANK

To optimised the factory-set standard settings.

The speeds and the opening and closing timer can be finely adjusted to suit individual and local conditions.

Pages 14 - 15

Main menu item 2 = Components Test - 5 Submenus (1-2-3-4-5)

CompTest / Fault Displ.

① = Submenu - Components Display

- 1 = Program Switch Type/Locking Type
- 2 = Battery/Motor Type
- 3 = Opening width/Partial opening width
- 4 = Operating Hours/Opening Cycles

Shows the components that are connected and enable these to be tested.

② = Submenu - Fault Display

- 1 = Fault New = X
- 2 = Fault Old 1
- 3 = Fault Old 2
- 4 = Fault Old 3

Listed the three last faults to have occurred.

③ = Submenu - Component Test

- 1 = Motion 1 External
- 2 = Motion 2 Internal
- 3 = Presence Detector 3
- 4 = Program -OFF
- 5 = Program -AUTOMATIC
- 6 = Program -PERMANENT OPEN
- 7 = Program -PARTIAL OPEN
- 8 = Program -EXIT ONLY
- 9 = Safety Beam 1
- 10 = Safety Beam 2
- 11 = Emergency OFF switch
- 12 = Key: NIGHT/BANK
- 13 = Panic Closing
- 14 = Airlock: 2. Door OPEN
- 15 = Relay: Door Position OPEN
- 15 = Relay: Door Position CLOSE
- 16 = Relay: Safety Beam, OPEN
- 16 = Relay: Safety Beam, CLOSE

To test the connected components.

④ = Submenu - Start Learn Cycle

To start a learning cycle.
Without light barrier control.

⑤ = Submenu - Door Obstructed

Start?

① = Yes

- 2 = Actual Speed
- 3 = Door Position

② = No (normal cycle)

- 2 = Actual Speed
- 3 = Door Position

To start a check run.
If the door is not running freely or is rubbing, the speed value is fluctuate.

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Main menu item 3 = Factory Test - 1 Submenus

Only Factory Test
Door in closed position
Bridge Emergency OFF
Input Cycl. No.:10

Component Test

Only for factory testing!

Pages 18 - 19

Main menu item 4 = Door Variants - 3 Submenus (1 - 6 - 8)

① = Submenu, ST sliding door

1 = ST sliding door

Standard factory settings for ST sliding doors will be automatically loaded.

⑥ = Submenu, Additional Parameter Adjustment

- 1 = Rev. Force Adj. CLOSE
- 2 = Rev. Force Adj. OPEN
- 3 = Encoder location
- 4 = Low speed distance CLOSED
- 5 = Low speed distance OPEN
- 6 = Acceleration OPENING
- 7 = Acceleration CLOSING
- 8 = Battery Operated
- 9 = Partial opening distance
- 10 = Opening at EXIT
- 11 = Position Floating Free Contact
- 12 = Position Floating Free Contact
- 13 = Position Floating Free Contact
- 14 = Position Floating Free Contact
- 15 = Select Locking
- 16 = Select Locking
- 17 = Select Locking
- 18 = Select Locking
- 19 = Select Locking

To set various special functions and door parameters.
Listed in the menu summary.

⑳ = Door Synchronization ON/OFF

- 21 = Synchronisation Program switch
- 22 = Synchronisation Lock

Submenu to optimise the door as an synchron system.

⑧ = Submenu, Special Unit

- 1 = Fail Secure Lock
- 2 = Motortype Adjustment
- 3 = Motortype Variant
- 4 = Motortype variant
- 5 = Lock Type -Adjustment
- 6 = Lock Type
- 7 = Lock Type
- 8 = Lock Type
- 9 = Lock Type
- 10 = Lock Test
- 11 = Closed Re-Try

To enter specific functions to customise the system.
Listed in the menu summary.

Page 20 - 21

⑧= Submenu Special Unit

- 12 = Closing Torque Adjustment
- 13 = Partial open only via HT
- 14 = Panic Closing
- 15 = Airlock control
- 14 = Panic Closing
- 15 = Airlock control
- 16 = Airlock control
- 17 = Time delay
- 18 = Program Switch Type
- 19 = Program switch type
- 20 = Program switch type
- 21 = Program switch type
- 22 = Exit with safe. open
- 23 = Safety Beam Type
- 24 = Presence Detector
- 25 = Presence Detector
- 26 = Encoder Test
- 27 = Door Obstructed
- 28 = Door Obstructed

To enter specific functions to customise the system. Listed in the menu summary.

Pages 20 - 21

Main menu item 5 = Basic Setting - 2 Submenus (1-2)

Copy Function

①= Submenu, New Adjustment

- 1 = Basic Parameters
- 2 = Copy Function

②= Submenu, New Operator Number

- Old Operator
- New Operator

To copy the basic factory settings, stored in the Hand Terminal, to the basic module.
Or to copy the settings from the basic module to the Hand Terminal.

Selection menu to change the addresses for the bus devices.

Pages 22 - 25

Main menu item 6 = Dialogue language - 2 Submenus (1-2)

①= Submenu, Dialogue language

- 1 = English
- 2 = Francais
- 3 = Espanol

②= Submenu, Scale

- 1 = USA -Inch
- 2 = Europe -cm
- 3 = %

To select the dialogue language.

To select the unit.

Pages 26 - 27

DORMA Hand Terminal HT-A

Main menu item 7 = Management System (1-2)

① = Submenu, bus subscribers

- 1 = Bus subscribers
- 2 = Bus subscribers
- 3 = Bus subscribers

② = Submenu, Target operator

- Operator Nr:
- New Operator Nr:

Shows the actual bus subscribers.

Selection menu in which each of the bus subscribers can be directly accessed.

Pages 28 - 29

Main menu item 8 = Activation Pulse



Warning! Only applies to the Main menu.

Pressing numeric key 8 will initiate an opening signal.

Pages 30 - 31

Main menu item 9 = Complete System

① = menu

- 1 = ES-A: EPROM Version
- 2 = Complete System -No.
- 3 = Serial Number
- 4 = Installation date
- 5 = Installation year
- 6 = Date Of Service
- 7 = Year Of Service

Shows the number of the current ES-A EPROM version.

The system-specific data can be input and modified as required.

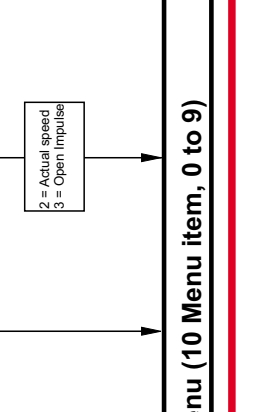
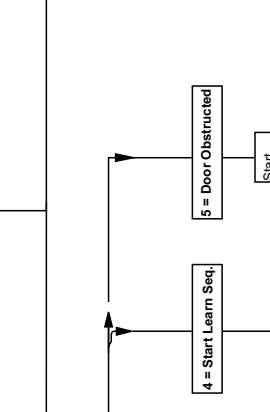
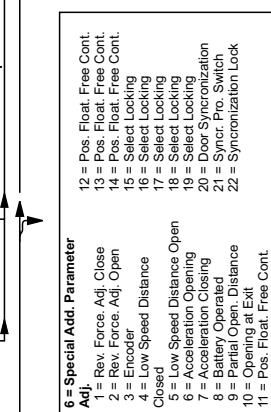
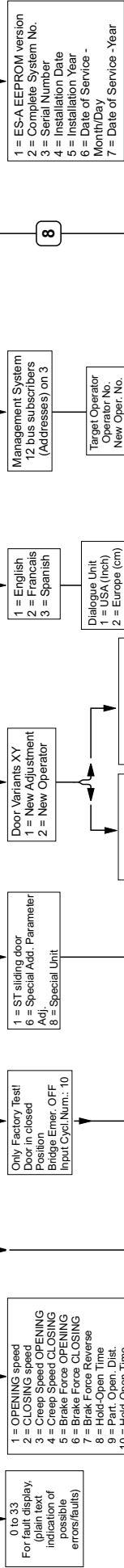
Pages 32 - 33



DORMA Hand Terminal (HT-A)- Menu Overview, Version 1.02

Start menu

Main menu (10 Menu item, 0 to 9)



Main menu (10 Menu item, 0 to 9)