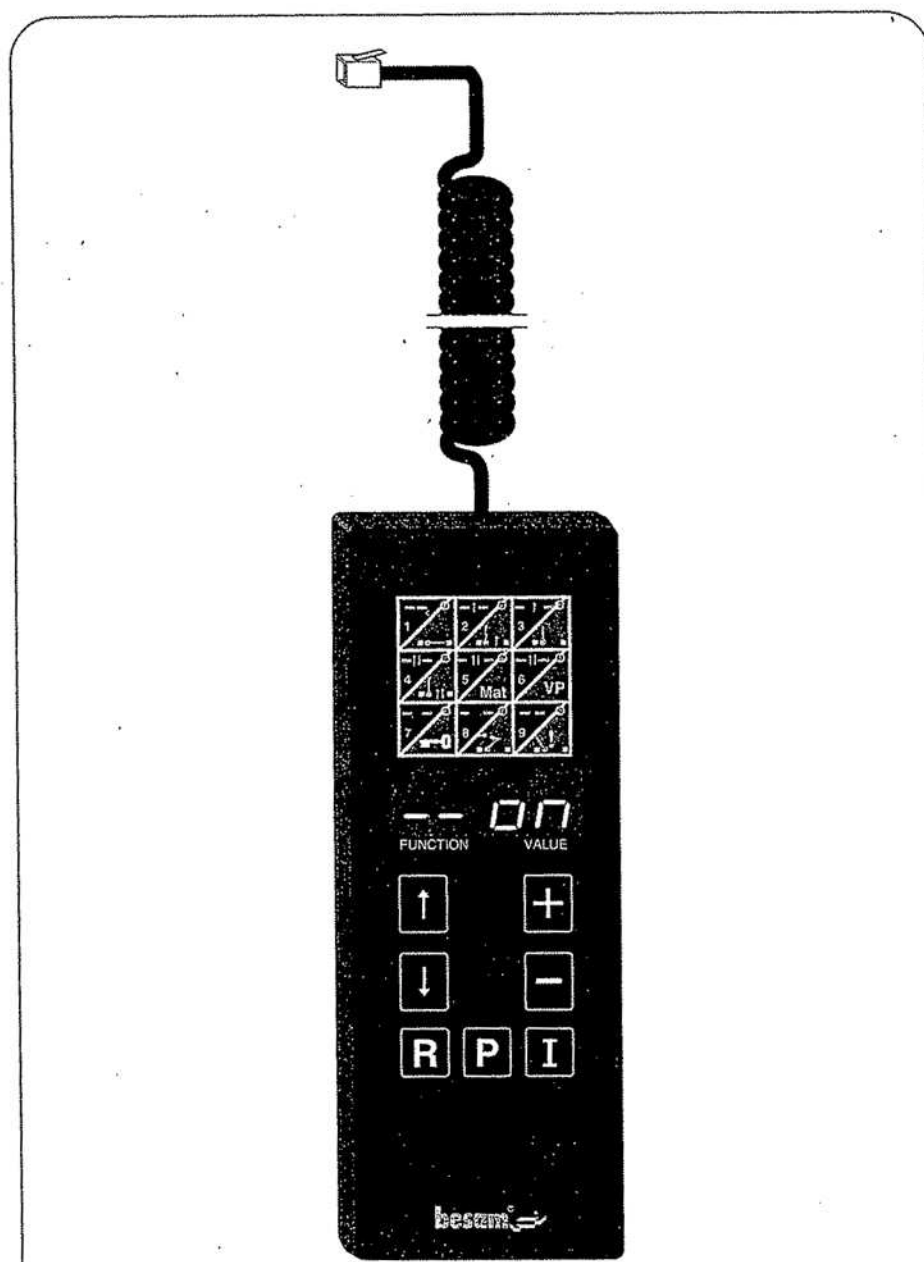

Manual

AAC846-GB

(655113)

Programming module PMD



Revision

At each revision **all revised pages** will get a new updated issue number (year-month-day).

The first leaf (pages 1 and 2) will always be distributed together with the revised pages and will have the same issue number.

Changes will be marked with a vertical line in the margin.

The table below shows the latest issue numbers.

Page	Issue No.	Page	Issue No.
01	99-06-23	06	99-03-30
02	99-06-23	07	98-01-29
03	99-03-30	08	99-06-23
04	98-01-29	09	99-03-30
05	99-06-23	10	98-01-29

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Introduction

The programming module PMD is used to programme the operating values into the control unit. **At the programming, the manual for the current operator must be used simultaneously with this manual.**

The PMD has a limited service life. A countdown is made at every connection and the remaining "value" is shown on the display. When the figures "- 71" are shown, the PMD is unusable and must be updated.

PMD models

PMDA	Service life: 6000 connections.
PMDB	Service life: 2000 connections.
PMDC	Service life: 400 connections.
PMDE	Customer version with restricted use. Service life: 400 connections.

Using the PMD

1. Connect the PMD to the control unit.
2. The display will consecutively show:
 - a) Type of control unit e.g. CUD or CUP.
 - b) Remaining "value" of the service life.
 - c) "00".
 - d) Actual status or error code e.g. "on".

Enter a personal code (PIN-code)

All new or updated PMD are delivered without PIN-code. To increase the security against misuse, a PIN-code can be programmed into the PMD. However, this means that the PMD will **always** need a PIN-code.

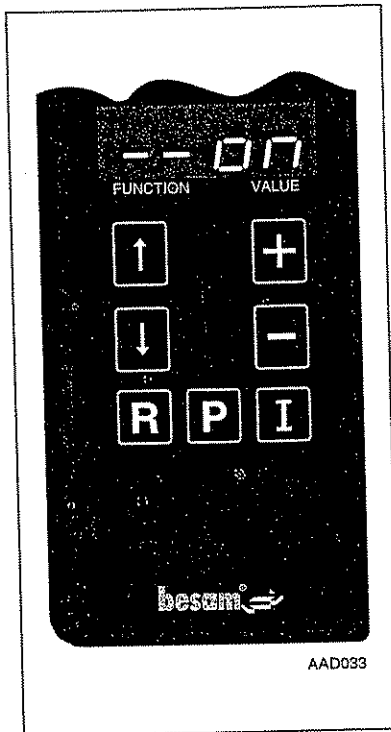
1. Carry out the instructions 1-2 under "Using the PMD" above.
2. Select function "30", value "b".
3. Push the button "P".
4. The display will show four flashing dashes " _ _ _ _".
5. Enter your personal code (four digits). Every entered digit will be shown on the display.
Note! If a wrong digit is entered disconnect and reconnect the PMD contact and start from the beginning.
6. Push the button "P".
7. "Pin_" with a flashing dash will be shown on the display.
8. Enter your "personal code" and "P" once more to confirm that the correct code was entered.

Note! If a mistake is made during the programming the PMD will revert to item 4 (" _ _ _ _").

Using the PMD with PIN-code

1. Connect the PMD to the control unit.
2. "Pin_" with a flashing dash will be shown on the display.
3. Enter your "personal code" (four digits). Every entered digit will be indicated with a dash "_" on the display.
4. Push the button "P".
Note! After five unsuccessful attempts to enter the correct PIN-code the error code "71" will be displayed. This means that the PMD is unusable and must be returned to be updated.
5. The display will show the same information as explained above

Push-button set



Function buttons



These buttons are used to set or check the functions (01-99) for speed, hold open time, monitoring etc. A push on the upper button will increase and on the lower one decrease the setting with one digit. If the button is held depressed for more than 1 s the function number will be incremented/decremented every 0.1 s. When the final function (99) has been reached the digits will roll over to the function 01 and start all over again.

**) Note! When selecting any of these functions the latest value, programmed into the operator, will be displayed, except for function 99, where value 01 will always be displayed.*

Value buttons



These buttons are used to set the wanted value for the selected function. A push on the "plus"-button will increase and on the "minus"-button decrease the value with one digit. If the button is held depressed for more than 1 s the value will be incremented/decremented every 0.1 s. When the end value has been reached the digits will roll over and start all over again.

Program button



This button is used to program the control unit with the function and value selected on the PMD. To indicate that data have been transferred into the control unit, the display will be blank (fractions of a second) and then show the selected digits.

Impulse button



This button is used to give an opening impulse to the operator. If the button is held depressed an impulse is given every 0.2 s.

Reset button



This button is used to reset the control unit. Hold the button depressed for approx. 2 s to reset.

Function display

When a FUNCTION button is depressed, the latest function used will be presented on the function display. If no function has been selected previously, the function "01" will be shown. If the FUNCTION and VALUE buttons are not activated for 5 s, the display will show "--".

Value display

The VALUE display shows the value for the selected function. If the FUNCTION and VALUE buttons are not activated for 5 s, the VALUE display will show the present status or error code for the operator.

Back

The function description on the back of the PMD is reversible. The green side is to be used when adjusting sliding doors and the blue side when adjusting swing doors.

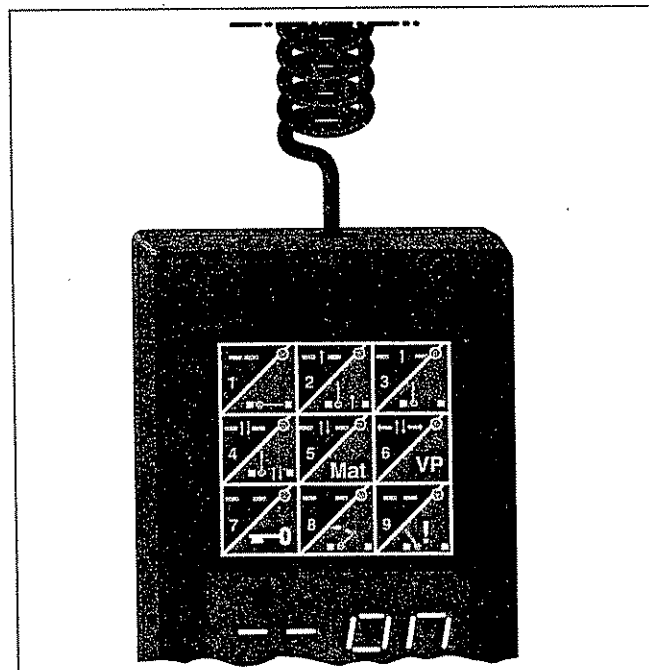
Sliding door operators

Programme selector (green push-button set to be used)

The buttons marked 1-8 are used to obtain the necessary functions of the operator. With the PMD connected to the control unit, these settings are overriding the settings of the programme selector (if fitted) except "open" and "reset". The functions of the programme selector are resumed approximately 30 s after the removal of the PMD.

Settings

- | | | | |
|----|---|----------------|--|
| 1. |  | "Off" | The door is closed. |
| 2. |  | "Exit partial" | Exit only, the door opens partially. |
| 3. |  | "Exit" | Exit only, the door opens fully. |
| 4. |  | "Auto partial" | The door opens partially with inner and outer activation units. |
| 5. |  | "Auto" | The door opens fully with inner and outer activation units. |
| 6. |  | "Auto width" | The door selects full or partial opening depending on the volume of traffic. |
| 7. |  | "Open partial" | The door is permanently partially open. |
| 8. |  | "Open" | The door is permanently fully open. |
| 9. |  | "Pharmacy" * | The door opens to the fixed pharmacy opening and closes after the impulse is released.
* Does not apply to all operators. |



Pre-programmed run programs (Function 98)

To facilitate the adjustment pre-programmed basic values for six different run programs (operating performance) can be selected with the function 98 and any of the values 01 06. The value 98/02 is factory pre-programmed and selected to give a satisfactory function for most doors.

When selecting the values in the order from 01 06 the performance of the operator is gradually increased and can be adapted to the valid operating conditions. If the performance has to be increased depending on door size and/or door weight, never use a higher value than necessary. To comply with authority requirements, the value selected must give the operator a smooth and safe closing.

Adding opening performance

If a higher opening performance is needed this can be obtained by selecting the function 20 and any of the four values 05, 10, 15 or 20. For example, if value 05 is selected the opening performance will be increased by one step compared with the selected run program, i.e. for run program 98/02 the opening performance will be 98/03 etc. If value 00 is selected no increase of the opening performance is obtained. The value 05 is factory pre-programmed (see also "Functions and values" in the current operator manual).

Note! Max. performance can never exceed the performance valid for run program 98/06.

Programming the run programs into the control unit

1. Plug the PMD into the control unit on the operator.
2. Select function 98 and any of the values 01 06. Add if needed function 20 and any of the values 05, 10, 15 or 20.
3. Press the program button **P** within 5 seconds. The selected run program will now be transferred from the PMD to the control unit.

Note! The values transferred are only values affecting the operator performance and not the "country specific" values (see page 7).

Copying and transferring of programmed values (Function 98)

This function is used to facilitate the adjustment by copying and transferring the values from one smoothly running operator to another one with similar operating conditions. The values can be copied and transferred in two levels.

- Copying and transferring of user values only (country specific values). Functions 01–27.
- Copying and transferring of all values.

Copying and transferring of user values only (country specific values)

- Control unit → PMD**
1. Plug the PMD into the control unit on the operator having the values to be copied.
 2. Select function 98 and value 99.
 3. Press the program button **P** within 5 seconds. The user values only will now be transferred from the control unit to the PMD.

- PMD → Control unit**
1. Plug the PMD into the control unit on the operator receiving the copied values.
 2. Select function 98 and value 98.
 3. Press the program button **P** within 5 seconds. The user values will now be transferred from the PMD to the control unit on the new operator.

Copying and transferring of all values

- Control unit → PMD**
1. Plug the PMD into the control unit on the operator having the values to be copied.
 2. Select function 98 and value 97.
 3. Press the program button **P** within 5 seconds. All programmed values will now be transferred from the control unit to the PMD.

- PMD → Control unit**
1. Plug the PMD into the control unit on the operator receiving the copied values.
 2. Select function 98 and value 96.
 3. Press the program button **P** within 5 seconds. All values will now be transferred from the PMD to the control unit on the new operator.

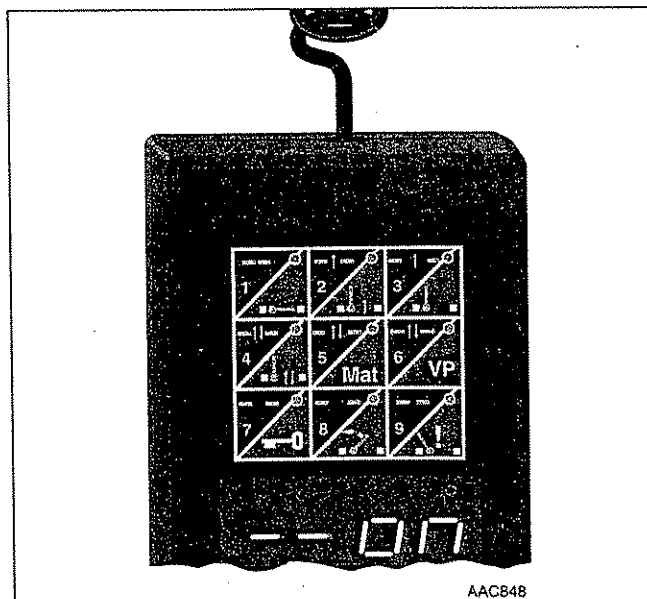
Swing door operators

Programme selector (blue push-button set to be used)

The buttons marked 1-4 are used to obtain the necessary functions of the operator. With the PMD connected to the control unit, these settings are overriding the settings of the programme selector (if fitted) except "open" and "reset". The functions of the programme selector are resumed approximately 30 s after the removal of the PMD.

Settings

1.		"Off"	The door is closed.
2.		"Exit"	Exit only.
3.		"Open"	The door is permanently open.
4.		"Auto"	The door opens with inner and outer activation units.
5.	Mat		Mat safety impulse.
6.	VP (IFD)		Presence detection.
7.		"Key impulse"	Key opening impulse.
8.		"Low speed opening" or "Learn" if VP-S is connected	Push the button for 3 s. The door opens with pre-set low speed. Used to automatically adjust the sensitivity of the VP-S.
9.		"Door opening angle >99°"	Push the button for 3 s, then open the door to the required angle and close it by hand. The new angle is now programmed into the control unit.



Pre-programmed run programs (Function 98)

To facilitate the adjustment pre-programmed basic values for six different run programs (operating performance) can be selected with the function 98 and any of the values 01 06. The value 98/03 is factory pre-programmed and selected to give a satisfactory function for most doors.

When selecting the values in the order from 01 06 the performance of the operator is gradually increased and can be adapted to the valid operating conditions. If the performance has to be increased depending on door size and/or door weight, never use a higher value than necessary. To comply with authority requirements, the value selected must give the operator a smooth and safe closing.

Programming the run programs into the control unit

1. Plug the PMD into the control unit on the operator.
2. Select function 98 and any of the values 01 06.
3. Press the program button **P** within 5 seconds. The selected run program will now be transferred from the PMD to the control unit.

Note! The values transferred are only values affecting the operator performance and not the "country specific" values (see page 10).