

Medication Compliance Solution

Medication Dispenser Manual



D6707125B

Contents

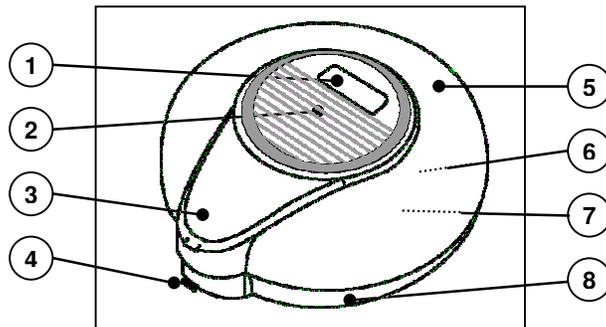
1.0	INTRODUCTION	3
2.0	USER INSTRUCTIONS	4
2.1.	NORMAL OPERATION	4
2.2.	BATTERY LOW WARNING	5
3.0	INSTALLATION PROCESS	5
3.1.	PACKAGE CONTENTS (PART NUMBER 67005/60)	5
3.2.	BATTERIES	6
3.3.	PREPARING TO PROGRAM THE MEDICATION DISPENSER	6
3.4.	SETTING THE TIME	8
3.5.	SETTING THE REMINDER VOLUME LEVEL	8
3.6.	SETTING THE MEDICATION DISPENSING TIMES	9
3.7.	FILLING THE MEDICATION DISPENSER	10
3.8.	CHANGING THE CAROUSEL FROM 28 TO 14 DOSE	13
3.9.	PROGRAMMING THE MEDICATION DISPENSER TO THE SOCIAL ALARM	13
4.0	ACCESSORIES	14
5.0	FURTHER INFORMATION	14

1.0 Introduction

This Manual contains user and installation instructions for the Medication Dispenser, which forms part of the Tunstall Medication Compliance Solution.

This package comprises a Medication Dispenser integrated with Tunstall radio technology. It ensures clients are delivered the correct medication at the correct time and when used with a Tunstall social alarm system is able to notify carers if non-adherence occurs.

The main parts of the unit are shown below.



- | | |
|---------------|------------------------------------|
| 1 Display | 5 Cover |
| 2 Main button | 6 Carousel (inside dispenser) |
| 3 Lid | 7 Battery compartment (under unit) |
| 4 Latch pin | 8 Base |

2.0 User Instructions

2.1. Normal Operation

- You can check when your medication will next be dispensed by firmly pressing the main button in the centre of the unit. This will display the time when your next dose is due.
- You can access the medication up to one-hour before the set dispensing time by pressing the main button. This will cause the carousel to rotate allowing the medication dose to be removed from the unit by lifting the white triangular lid.
- If the medication is not taken during this one-hour period, then at the set time the unit will remind you by 10 long bleeps, this is repeated twice if the dose is not taken. Additionally, the dispenser will produce 3 short bleeps every 15 minutes. This acts as a further reminder and the tablets can be obtained by pressing the main button. Once you have pressed the button to access the tablets the reminder will stop.
- If the medication is not taken within two hours from the set time, then the unit will raise an alert.
- It is possible to take the medication for up to two hours after the dispensing time.
- When the next dose is due the unit will have automatically skipped any missed dose.

- You can use the dispenser at home and the unit may be taken out with you. The dispenser will dispense tablets as required, will beep to remind you of the time to take a dose but will not be able to raise an alert.

2.2. Battery Low Warning

The Medication Dispenser indicates battery status by means of a battery icon on the LCD display. When new batteries are installed, all three bars on the battery icon will be black. As the batteries wear down, bars will go out. The dispenser will automatically inform the Monitoring centre of any low battery status. However, if you are concerned and only one bar remains black please contact the Monitoring Centre so that they can take appropriate action.

3.0 Installation Process

3.1. Package contents (part number 67005/60)

The pack contains the following items

- Med-O-Wheel smart unit (with 28 dose carousel)
- Carousel cover
- Dosage schedule card
- Batteries (2x AA)
- Dose stickers (16)
- This manual

3.2. Batteries

The battery compartment can be found on the underside of the unit. To access the compartment please remove the small screw found on the right of the unit (where fitted) and slide the cover to the right.

Ensure two good quality AA size alkaline batteries are inserted in the unit. Battery life is typically 12 months, depending on usage. When the unit automatically detects low battery an alert will be generated and the social alarm infrastructure will direct the call as appropriate.

3.3. Preparing to Program the Medication Dispenser

Before the Medication Dispenser can be used it must be programmed with the relevant times to dispense medication. In order to program the unit, it is first necessary to remove the top cover of the unit in order to access the programming buttons. This can be achieved by means of the following procedure: -

- Locate the black plastic latch pin on the underside of the unit. (See Figure 1)
- Pull black plastic pin down until it comes to a stop.
- Now with display facing upwards rotate the white cover in an anti-clockwise direction.
- The cover can now be lifted off.

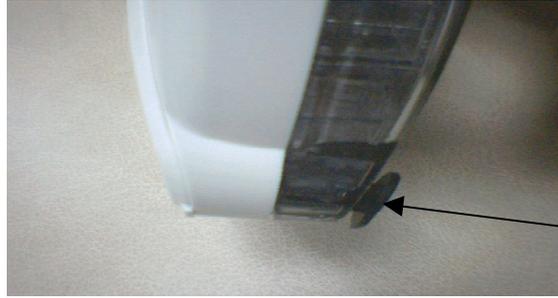


Figure 1

Black plastic latch pin

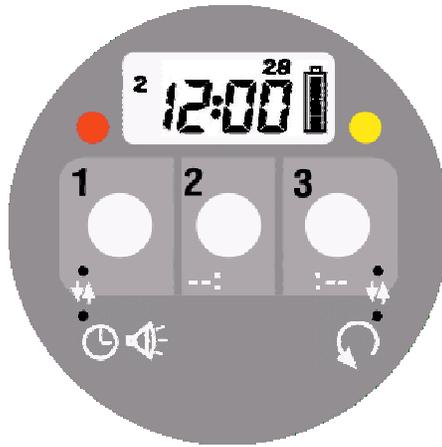


Figure 2

Programming buttons

3.4. Setting the Time

In order to set the time on the unit, use the following procedure: -

- Press and hold the button marked 1 until the orange light starts to flash. (see Figure 2)
- To set the time use buttons 2 and 3. Button 2 sets the hours while button 3 sets the minutes.
- Once the time has been set exit program mode by holding button 1 for 3 seconds then let go.

3.5. Setting the Reminder Volume Level

The volume at which the unit beeps to remind the user to take their medication can be adjusted by means of the following procedure: -

- Press and hold the button marked 1 until the orange light starts to flash.
- Press button 1 once, the unit should now display C:28.
- Press button 1 once this should now display L:XX (were XX is the volume level) To scroll though the volume levels use button 3.
- Once the volume level is set exit program mode by holding button 1 for 3 seconds.

3.6. Setting the Medication Dispensing Times

Medication can ONLY be dispensed up to 4 times a day and MUST have a minimum of 4 hours between each dose.

In order to set the medications dispensing times on the unit, use the following procedure: -

- Press and hold the button marked 1 until the orange light starts to flash.
- Press button 1 this will display C:28, press button 1 again this should display L:XX (were XX is the volume of the buzzer).
- Press button 1 a third time it should now display the time in 24hr clock or --:-- and a digit 1 in the top left corner.
- To set the first dispense time use buttons 2 and 3 to set the time. . Button 2 sets the hours while button 3 sets the minutes.
- Once the first dispensing time has been set you can advance to dispensing time number two by pressing button 1, this will cause 2 to be displayed in the top left corner.
- Set the dispensing time using buttons 2 and 3

- If you require medication to be dispensed for a third or fourth time repeat the above steps using button 1 to advance to the next dispensing time and use buttons 2 and 3 to set the time.
- If a dispensing time is already programmed into the unit but you do not require it, use buttons 2 and 3 to set the displayed time to --:--.
- To exit program mode press and hold button 1 for 3 seconds.

3.7. Filling the Medication Dispenser

The Medication Dispenser contains a carousel which has 28 compartments (numbered 1 to 28) which contain the client medication. Depending on the number of doses per day, the Medication Dispenser can dispense medication for the following number of days

1 dose per day = 28 days

2 doses per day = 14 days

3 doses per day = 9 days

4 doses per day = 7 days

In order to fill the Medication Dispenser carousel with medication, the following procedure should be used:

- Remove the top cover from the unit as described in Section 3.3.
- Remove the carousel from the unit and attach the green or red lid.
- Take the coloured-dosage schedule card and choose how many doses per day are required. Insert this into the centre of the carousel from underneath. (See Figure 3)



Figure 3

- Now using the card as a guide you can see which slot is used for which dose on the relevant day.
- It is only possible to remove the lid when it is rotated to the last position prior to the Addoz logo.
- Once the carousel has been filled place this back into the unit.

- To set the carousel into the correct position DO NOT rotate the unit manually. First hold button 3 until SIHO (see fig 4) is displayed, next use button 2 to rotate the carousel until the word ADDOZ is pointing at the locking catch. (See Figure 5)
- Hold button 3 for 3 seconds to exit this feature.
- Next replace the lid and lock in place using the latch pin.



Figure 4



Figure 5

3.8. Changing the carousel from 28 to 14 dose

The dispenser can use either 28 or 14 dose carousels; the 14-dose carousel has a larger capacity. The current size will be displayed above the time close to the battery status.

- Press and hold the button marked 1 until the orange light starts to flash
- The time display will flash, press button 1 again and the display will show the carousel size. Press button 3 to change the carousel size.
- Press and hold button 1 for 3 seconds to exit.

When the carousel size is changed all previous references to the display showing C:28 will now show C:14.

3.9. Programming the Medication Dispenser to the Social Alarm

The Medication Dispenser will register with a plug and play Tunstall system as a medication dispenser.

Please follow the instructions provided with the radio receiving equipment on assigning a radio trigger.

In order to force the Medication Dispenser to generate a radio transmission, for programming purposes, use the following procedure: -

- Press and hold the middle button (2) down for 2 seconds, until you hear a beep and current time appears in the display again.
- Press the left button (1) for "missed dose" trigger. The red LED on the Medication Dispenser will flash as the radio transmission is made.

4.0 Accessories

Part number	Accessory
67005/61	14 dose carousel
67005/62	Additional 28 dose carousel
67005/63	Lock to prevent user access to carousel and programming. Also includes battery compartment fixing screw.

5.0 Further information

The product is manufactured by Addoz Oy. The manufacturer grants the product a one-year warranty from the date of purchase. Warranty covers manufacturing and material defects of the device. Warranty does not cover normal wear such as batteries.

This product is distributed by Tunstall whose contact details are below.

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NOTICES

Approval: This product is marked with a CE mark and constitutes a Class 2.7 radio device. The radio system has been designed to comply with EN50134 series of European Norm standards specific to Social Alarms. The product exceeds the requirement for Electromagnetic Compatibility (EMC) standard BS EN 50130 part 4; which sets criteria for EMC Immunity for components of fire, intruder and social alarm systems. The radio triggers (and receiver) are in accordance with the specific European Social Alarm radio frequency band allocation (from 869.20 to 869.25MHz). They operate at 869.2125 MHz. The radio transmitters comply with mandatory radio standards for Short Range Devices (SRD) ETSI EN 300-220: The radio receiver also conforms and exceeds the mandatory class 1 criteria necessary for *“Highly reliable SRD...serving human life inherent systems.”*

Transmitter parameters

The transmitter follows a pre programmed cycle leading to a typical duty cycle class of 1 (<0.1%):	A class 2.7 device
Effective radiated power 200 micro Watts	Frequency error ± 3 kHz maximum
Adjacent channel power <100 nano Watts	
Effective range up to 50m (into standard alarm telephone)	Intended area for use is Europe
Intended environment is group II - indoor in general with intended operating temperature between -10 to +55 Celsius	

Declaration of Conformity

We, Tunstall Telecom of Whitley Lodge, Whitley Bridge, Yorkshire, England, DN14 0HR Declare that the 869 Radio Output Module conforms with the essential requirements of the RTTE directive 1999/5/EC. Essential radio test suites have been carried out.

Model Number: 67005/60

Applicable standards:

EMC EN 55022:1998
 ETSI EN300-683:1997 (Class 1)
 ETSI EN301-489-1:(2000-08) Class 1

Safety EN 60950:2000

Radio ETSI EN 300 220-3:(2000-09)

Social Alarm EN50130-4:1995 + amendment A1:1998

Signed




Technical Director Date 21 June 2005

Associated Summary Information (05RTTE0006A)

The CE mark was first applied in June 2005