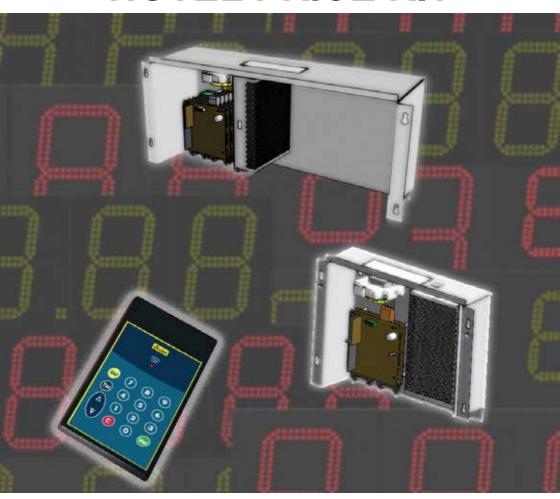
# **HOTEL PRICE KIT**



# Installation and operating manual



49340 TRÉMENTINES FRANCE www.bodet.com



Ref. 607457 C

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#### I - GENERAL PRESENTATION

Before installation, please read the document in appendix, entitled «General safety instructions and precautions for use of BODET products».

#### I.1 - Introduction

This system is used to control the display of hotel room prices by remote control.

# I.2 - Equipment

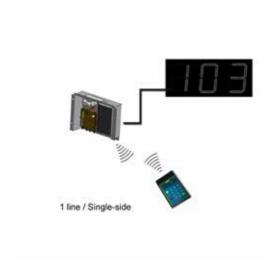
There are 2 electronic control kits to be used according to the desired number of display lines, single or double sided signs.

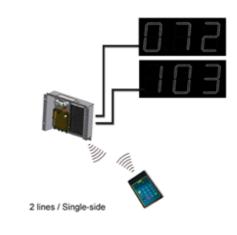
Each HOTEL PRICE KIT unit is supplied with a box containing the CPU board, the power supply unit and the necessary number of flat cables :

Electronic Kit	15 cm Digits	20 cm Digits	25 cm Digits	60 cm Digits
1 line SF	940301	940301	940301	940301
1 line DF	940301	940301	940301	
2 lines SF	940301	940301	940301	
2 lines DF	940021	940021	940021	

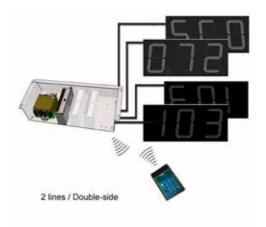
# I.3 - Operating principle

The keypad is connected to the CPU board by wires or by an HF radio link. The CPU board then controls each module line via a flat cable.









#### II.1 - HOTEL PRICE KIT box

The KIT box receives data from the control keypad and retransmits it to the price lines on the sign.

#### The KIT box contains:

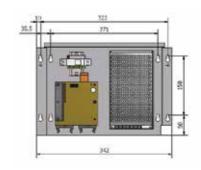
- 1 central processing unit (CPU) with an HF radio reception board,
- 1 power supply units with 1 circuit breaker.
- 1 to 2 power boards (depending on the number of lines installed on the fuel totem).

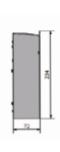
It must be correctly installed inside the totem in accordance with the following requirements:

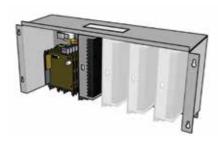
- The box is intended for assembling on a concrete wall or any other non combustible surfaces only.
- Cable outlets must be facing downwards to avoid water infiltration.
- · Lock the cables with collars.

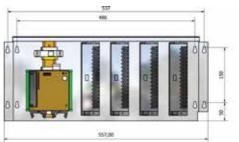
#### Dimensions in mm











#### II.2 - CPU board and power boards

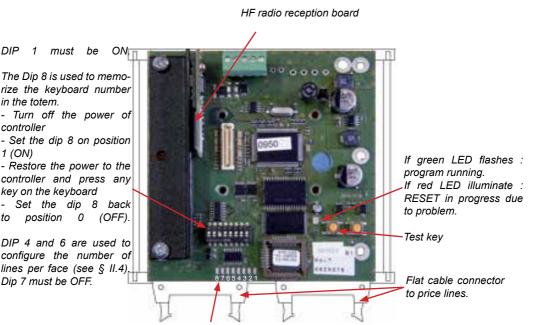
DIP 1

controller

1 (ON)

The CPU board is supplied with power by the power supply unit (15V) and is located above the power boards

Each power board has two connectors for flat cables. These cables are used to control each price line. A CPU board can control a maximum 1 or 2 price lines.



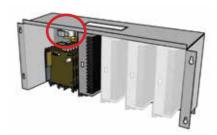
If red LEDs 7 and 8 are on: CPU card recognizes the message and the keypad. If only red LED 1 is on: the keypad is not recognized so memorising procedure must be repeated.

# II.3 - Power supply

The KIT box is pre-wired in the factory.

Simply connect up the mains power supply (230 V) + earth inside the box.





Number of power supply modules	3*15 cm 15W / line	3*20 cm 30W / line	3*25 cm 36W / line	2*60 cm 50W / line	3*60 cm 75W / line
1 line SF	1	1	1	$\mathbb{X}$	X
1 line DF	1	1	1	1	1
2 lines SF	1	1	1	$\nearrow$	$\nearrow$
2 lines DF	1	1	1	> <	$\searrow$

#### II.4 - Wiring of price lines

Install each price line on the fuel totem.

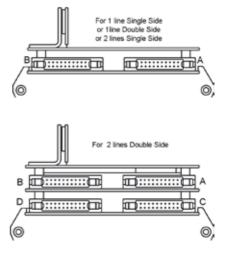
Every price line has a light sensor.

For a single-sided price sign, only the sensor of the line connected to the connector A is active.

For a double-sided price sign, only the sensors of the lines connected to the connectors A and B are active. These two sensors manage independently the brightness of each side of the price sign.

Connect each flat cable from the CPU board connectors to each price line.

Note: the brightness of a display line may be affected by the length of the flat cable. For optimal display quality, all the flat cables to a totem should be the same length (standard flat cable 7.5 m long supplied).



To wire the lines in single or double face see the above illustration and the chart here below.

# Attention: the place of lines varies according to the number of line to be installed.

Γ	Electronic Kit	Configuration		lectronic Kit Configuration Location		cation of t	tion of the price lines	
l	Electronic Kit	Dip 4	Dip 5	Dip 6	Α	В	С	D
	1 line SF	OFF	OFF	OFF	1	$>\!<$	$>\!<$	$>\!\!<$
Г	1 line DF	OFF	OFF	ON	1	1	> <	> <
Γ	2 lines SF	OFF	OFF	OFF	1	2	$\overline{}$	$\sim$
Г	2 lines DF	OFF	OFF	ON	1	1	2	2

# Remarks on brightness adjustment:

By default, the brightness level is set to medium.

Three levels are available (low, medium and high).



Each state (night, cloudy and sunny) can be set individually (see technician menu Chapter III.3).

#### II.5 - Installation of the KARBU PAD in HF radio mode

#### A) Single-sided sign

Make sure the HF radio reception board is properly installed on the CPU board.

Install the two 1.5 V batteries supplied in the KARBU PAD keypad.

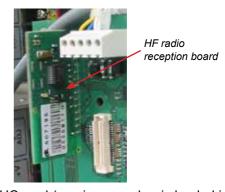
The maximum range for the input of data on the keypad is 25 metres. Beyond that distance, communication cannot be ensured.

Before the first use of the totem or after replacement of the keyboard it is neces-

sary to memorize the keyboard number in the UC card (a unique number is loaded in the keyboard at the factory).

- Turn off the power of controller.
- Turn the power back on and press any key on the keyboard within 30 seconds following the restoration of the power.

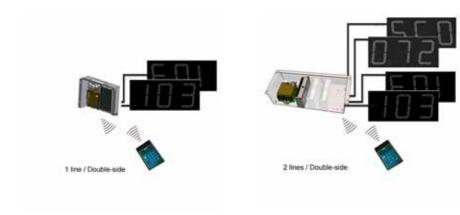
The HOTEL PRICE KIT will now operate correctly and prices can be displayed on the totem.



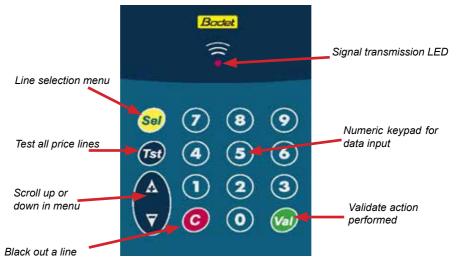


# B) Double-sided sign

Same procedure than before but switch the Dip to the ON pposition.



#### III.1 - Description of keypad keys



#### III.2 - User menu

#### A) Test

All price lines can be tested simultaneously.

Press the Tst key. All the segments of all the modules light up.

Press again = the line number blinks

Press again = each module displays its own address

Press again = all the modules go blank

Press again = Back to the starting display.

## B) Select a line to modify the price

This is done by repeatedly pressing the **Sel**, as required, or using **keys + and –**. When a line is selected, it flashes.

# C) Enter a price

After selecting a line use the numerical pad (keys 0 to9) to enter the price and Tst to blank a module.

Validate the price line and go on to the next line by pressing the Sel key.

To validate all the price lines, press the Val key.

## D) Black out a price line

After selecting a line, you can black out a line by pressing **key C**. The line then displays - - - in flashing mode.

To validate the blacked out line, press the *Val key*. The totem display reappears in steady mode with the selected line completely cleared.

Nota: if selection of a line already to the black, it flashes with hyphens - - -.

This menu is activated by entering the technician's code - 4 9 3 4 - and then pressing the Val key. You can exit from the technician's menu at any time by pressing **key C** or **Val** (press one or more times depending on where you are in the menu) - or when a minute goes by without any key being pressed.

The menu is displayed in place of the first three digits on the first line.

The totem displays LUM (for brightness). Other menus (display of totem version and setup) can be accessed by pressing key + or -. You can exit by pressing C.

#### A) Adjust the brightness (LUM)

Display on the first line: LUM.

Press the Val key. Choose between the 5 menus with keys + and -.

- Menu A.d sets the brightness for a sunny day.
- Menu A.c sets the brightness for a cloudy day.
- Menu *A.n* sets the brightness for night-time.

Press the *Val key* in menu A.d, A.c or A.n if you want to adjust the brightness level. The current level is shown on the third module in flashing mode. Press key + or - to increase or decrease that brightness level :

- High brightness level : all horizontal segments are lit up ( =).
- Medium brightness level : only the middle and bottom horizontal segments of the module are lit up (\_).
- Low brightness level : only the bottom horizontal segment is lit up (\_).

Grading of brightness levels (1 to 9) in the LUM menu (A.n/A.c/A.d)				
A.n (night)	A.c (cloudy)	A.d (sunny)		
3 =	6 =	9 =		
2 = _	5 =	8 =		
1 =	4 =	7 =		

The night/sunny triggering levels can be modified. Please contact the BODET maintenance department for details of these settings.

- Menu *L.m* is for manual setting of fixed brightness (the probe is deactivated). Press
  the *Val key* to adjust the brightness level to between 1 (night) and 9 (sunny). The display shows: *L.m* with flashing and adjustable to between 1 and 9 with *keys* + *and* -.
- Menu *d.EF* is for FACTORY setting of brightness (grey-shaded part of the table below).

When you have validated the desired value with the *VAL key*, the next menu is displayed.

#### B) Totem setup (CnF)

This menu is used to define the number of lines on the totem and the number of digits per line. When you press the *Val key*, the first submenu described below is displayed.

#### 1- Enter number of lines

The display shows *CL*- with - flashing and adjustable to between 1 and 6 with *keys* + *and* –. When you validate with the *Val key*, the next menu is displayed (price format). Press *key C*, to switch to menu *CnF*.

#### 2- Choose price format

The display shows **Cd-** with - flashing and adjustable to between 1 and 8 with **keys** + **and** –. When you validate with the **Val key**, the software version menu is displayed **(Uxx)**. Press **key C**, to switch to menu **CnF**.

#### 3- Enter start line number

This menu is used to define the first line controlled by the slave kit. For a master kit, it is always NL = 1. The display shows NL- with - flashing and adjustable with keys + and -.

When you validate with the Val key, the next menu is displayed (price format). Press key C, to switch to menu CnF.

## C) Display the software version (Uxx)

The totem software version is displayed: *U11* (or another version, as applicable). When you press the *Val key*, the next menu is displayed. Press *key C* to exit from the technician's menu.

#### IV - WHAT TO DO IF ...?

### The price is not displayed on a line?

- 1- Check that the flat cable for the price line is properly connected.
- 2- Check that the right number of lines has been defined in the technician's menu (CL-).

# The price is not displayed in the first digit on each line?

Check that the right price format has been defined in the technician's menu (Cd-).

#### The keypad does not work?

- 1- Check that the keypad memorising procedure has been performed.
- 2- In HF radio link mode, check that the reception boards are connected to each CPU board. Check the batteries of the keypad. Make sure you are close enough to the totem to avoid any communication problems.

## On a double-sided sign, the display is different on the two sides?

Switch off each HOTEL PRICE KIT unit and then switch back on. Enter the prices on the keypad. Check that the wiring is properly installed between the two KIT units. Check that the Dip 6 is on the On position.

# The price lines do not light up even when the Hotel Price Kit unit is switched on ?

First of all, check that the KIT is switched on : the green «power on» LED should be illuminated.

Even if the green LED is on, there may be a problem with the power supply: a protective device may have been triggered. Switch off the power supply, wait a little while and then switch the power back on.

# The brightness of the price display is not suitable?

Carry out the brightness adjustment procedure in the technician's menu (LUM).

#### V - TECHNICAL CHARACTERISTICS

#### Power supply

HOTEL PRICE KIT unit: 230V AC +/- 10%. Protected by a disconnect with a 2-amp fuse

Price lines supplied with power via CPU board.

Tthe keypad is supplied with power by two 1.5V DC batteries (LR6).

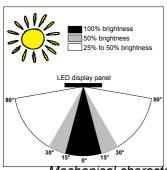
Power for a 3x150mm line: 15W. Power for a 3x200mm line: 30W. Power for a 3x250mm line: 36W. Power for a 2x600mm line: 50W. Power for a 3x600mm line: 75W.

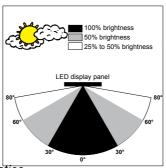
#### Communication

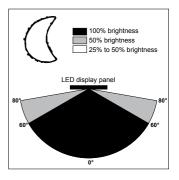
Communication with the keyboard via HF radio link 869.525 MHz (range of about 25 metres).

#### <u>Display</u>

High luminosity LED 120° (useful life = 50 000 hours). Min. luminosity = 2000 mcd.







Mechanical characteristics

Aluminium box.

Dimensions of the box: 557 x 240 x 122 mm.

342 x 234 x 72 mm

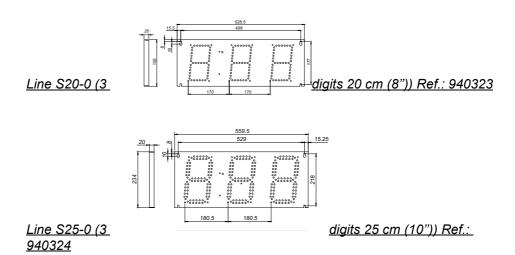
#### Environment

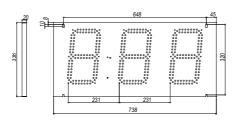
Operating temperature: -20°C to +70°C.

Relative humidity: 93% to +40°C.

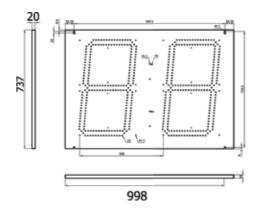
#### Standards

EN55022, EN55024, EN300-220-2, EN301-489-3, EN60950

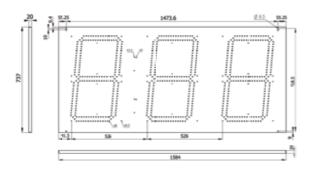




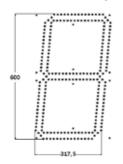
Line S60-0 (2 digits 60 cm (24")) Ref.: 940319

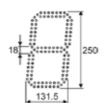


# Line S60-1 (3 digits 60 cm(24")) Ref.: 940329



# Detail of digits









#### VI - RECOMMANDATION ON INSTALLATION

#### VI.1 - Brightness

As far as possible, avoid placing the totem near direct sources of light (street lamps, etc.) so as not to disturb the automatic brightness setting.

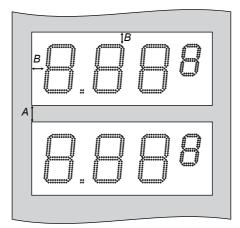
## VI.2 - Principle for installation of price lines in totem

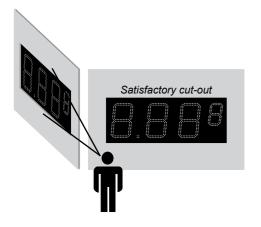
Fit a protective pane in front of each line.

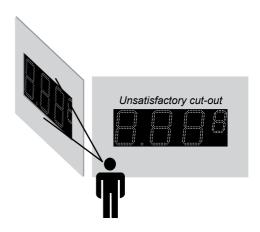
If it is a non-reflective pane, position it 2 or 3 cm from the figures.

To ensure good readability of all the figures, allowing for parallax errors: the distance between the LED figures and outer structure of the totem must be properly calculated to allow easier reading from the side from below:

- When the cut-out is made in the totem, make sure enough space is left around the figures (B).
- Make sure there is sufficient space between the lines (A).





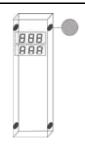


#### VI.3 - Totem ventilation

To avoid any problems due to condensation inside the totem, it is advisable to ventilate it.

Ventilation is provided by creating openings at the top and bottom of the structure on each side of the totem.

To prevent the entry of insects or small animals, it is essential to fit an insect-proof grid over each ventilation hole. The Hotel Price Kit box is ventilated mechanically.



## VI.4 - Protection against water infiltration

The Hotel Price Kit must be mounted at the bottom of the price sign.

The flat cables must be placed as indicated opposite.

We recommend to protect the electronics from possible water flowing down with a protection above the price lines.

Protection

The panel in front of the price lines must be watertight to avoid water splattering on the LEDs.

Do not put flammable material (e.g. wood) under the KIT box for safety reasons.

