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**Honeywell**

## **T7270B2009** WIRELESS WALL MODULE

HONEYWELL EXCEL 5000 OPEN SYSTEM

### INSTALLATION AND OPERATING INSTRUCTIONS



Fig. 1. T7270B2009

### STANDARDS AND NORMS

The ZAPP System complies with CE and EN 300 220-1 and EN 301 488-1.

### IMPORTANT!

It is recommended that devices be kept at room temperature for at least 24 hours before applying power to allow any condensation resulting from low shipping/storage temperatures to evaporate.

### Use in Combination with Legacy Devices

The T7270B2009 ZAPP Wireless Wall Module is suitable for use only with the W7070A2000 ZAPP Wireless Receiver. It cannot communicate with that is likewise unaffected by) legacy devices (e.g. the W7070A1000).

**NOTE:** Do not attempt to teach-in both an RT7070A2008 and a T7270B2009 to the same room.

### TECHNICAL DATA

Batteries	1.5 V, type LR06, AA
Frequency	868.3 MHz (transmitter)

### OVERVIEW

#### Functions

In the operating mode, the T7270B2009 features the following six basic functions:

- LIGHT (this is the default function),
- SUNBLINDS,
- OCCUPANCY,
- FAN,
- SETPOINT OFFSET and
- TEMPERATURE DISPLAY/TRANSMIT function.

#### Controls

The T7270B2009 features three control buttons and a large setpoint wheel used (in the operating mode) to select individual functions and to adjust their respective settings:

- the "function" button ("F"),
- the UP ("▲") and DOWN ("▼") buttons, and
- the setpoint wheel (for adjusting e.g. the value of the temperature setpoint offset, etc.).

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EN1B-0386GE51 R1207A



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**Manual abstract:**

**IMPORTANT!** It is recommended that devices be kept at room temperature for at least 24 hours before applying power to allow any condensation resulting from low shipping/storage temperatures to evaporate. Use in Combination with Legacy Devices The T7270B2009 ZAPP Wireless Wall Module is suitable for use only with the W7070A2000 ZAPP Wireless Receiver. It cannot communicate with (but is likewise unaffected by) legacy devices (e.g. the W7070A1000). NOTE: Do not attempt to teach-in both an RT7070A2008 and a T7270B2009 to the same room. TECHNICAL DATA Batteries Frequency Fig. 1. T7270B2009 1.5 V, type LR06, AA 868.

3 MHz (transmitter) OVERVIEW Functions In the operating mode, the T7270B2009 features the following six basic functions: LIGHT (this is the default function), SUNBLINDS, OCCUPANCY, FAN, SETPOINT OFFSET and TEMPERATURE DISPLAY/TRANSMIT function. APPLICATION The T7270B2009

Wireless Wall Module is designed for use in wireless systems, and is suitable for use in conjunction with the W7070A2000 ZAPP Wireless Receiver. FEATURES · · · Easy mounting, no wiring; All functions combined in a single, easy-to-use wall module; Up to eight separate T7270B2009 wall modules can simultaneously communicate with the W7070A2000 over distances of approx. 30 meters and through two walls; Permits not only HVAC, but also light and sunblind control; Fits seamlessly into XL10 / XL12 individual room control systems. Controls The T7270B2009 features three control buttons and a large setpoint wheel used (in the operating mode) to select individual functions and to adjust their respective settings: · the "function" button ("F"), · the UP (" ") and DOWN (" ") buttons, and · the setpoint wheel (for adjusting e. g. the value of the temperature setpoint offset, etc.). · · ® U.S.

Registered Trademark Copyright © 2007 Honeywell Inc. · All rights reserved EN1B-0398GE51 R1207A T7270B2009 WALL MODULE LCD Symbols and Printed Symbols function indication bar fan symbol MANU light symbol sunblind symbol occupancy symbol The setpoint offset range may be adjusted via parameter P4 (see page 6). NOTE: A snowflake displayed in the lower right corner of the LCD indicates that the T7270B2009 is transmitting data. During transmission, the function keys are disabled; you will thus have to wait approx. 1 sec between e.g. @@@2. @@@@2), and a corresponding symbol; e.g. the fan symbol.

Controlling a Single Light Group (P6:1) If the T7270B2009 has been configured to control only a single group of lights (see section "P6: Light Groups" on page 5), the LIGHT function settings are performed as described in the following sections. Pressing the UP Button · Briefly pressing the UP button once turns the light group ON and causes the word "ON" to appear in the LCD. · Pressing the UP button for more than 2 sec turns the light ON and starts dimming the light group. Once 0% is reached, it starts brightening from 0% to 100% (100%...0%...100%...).

Releasing the UP button stops the process and causes the LCD to revert to the default display mode. Pressing the DOWN Button · Briefly pressing the DOWN button once turns the light group OFF and causes the word "OFF" to appear in the LCD. · Pressing the DOWN button for more than 2 sec turns the light OFF and starts brightening the light group. "ON" is displayed once the brightening starts. Brightening continues until 100% is reached. Then it starts dimming from 100% to 0% (0%...100%...0%....

). In the LCD, a vertical bar next to the word "ON" moves continuously from the right to the left. Releasing the DOWN button stops the process and causes the LCD to revert to the default display mode. NOTE: If, after dimming / brightening the light group, the user uses the DOWN button to turn it OFF and subsequently back ON, it will be turned back ON at a brightness level of 100%. OPERATING MODE Selecting Functions / Adjusting Settings The user can select the LIGHT, SUNBLINDS, OCCUPANCY, or FAN functions by pressing the "F" button, whereupon the current room temperature will disappear from the LCD and be replaced by the corresponding function symbol. The setting of the selected function can then be adjusted as desired using the UP button and the DOWN button. To adjust a setting, press, as often as necessary (referred to as "cycling"), the "F" button until the symbol representing the desired function appears in the LCD. Once selected, this symbol will be displayed for 4 sec. During this time, the user can use the UP or DOWN buttons to adjust the setting. If there is no user action for more than 4 sec, the function symbol will disappear, and the T7270B2009 will revert to the default display and the default function. The SETPOINT OFFSET function is selected and its settings adjusted using the large setpoint wheel located on the right side of the T7270B2009 (see section "SETPOINT OFFSET Function" below). SETPOINT OFFSET Function If the SETPOINT OFFSET function is selected (by rotating the setpoint wheel), the current temperature setpoint offset, accompanied by the degree symbol and corresponding temperature unit (°C or °F), will appear in the LCD. NOTE: The SETPOINT OFFSET function can be configured so as to be disabled whenever the user has used the OCCUPANCY function to manually force the controller into the "unoccupied" state and parameter P8 (see page 6) has been set to 2 or 4. In this case, the setpoint offset is fixed to 0.0 °.

Controlling Two Light Groups (P6:2 and P6:3) Dimming / brightening is not possible if the T7270B2009 has been configured to control two light groups (see section "P6: Light Groups" on page 5). In this case, it is possible only to turn each group of lights ON or OFF. The UP and DOWN buttons can be configured by setting parameter P6 to 2 or 3. Adjusting the Setting The SETPOINT OFFSET function setting can be adjusted by rotating the setpoint wheel clockwise or counterclockwise, thus increasing or decreasing (respectively) the setpoint offset over a range of max. -5.

..+5 K in steps of 0.5 K. EN1B-0389GE51 R1207A 2 T7270B2009 WALL MODULE NOTE: The UP and DOWN buttons can also be configured by setting parameter P6 to 4 or 5 (special custom models, only). "UP" = ON and "DOWN" = OFF usage (P6:2) Pressing the UP Button NOTE: The SUNBLINDS function can also be configured by setting parameter P9 to 3 or 4 (special custom models, only) as well as via parameter PB (special custom models, only). Refer to section "Configuration Parameters" on page 5 for details. Raising/Lowering One Set of Sunblinds (P9:2) Pressing the UP Button Pressing the UP button will turn ON the two light groups as follows: · Pressing the UP button once turns ON light group 1, and the characters "ON 1" appear in the LCD.



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· Pressing the UP button twice turns ON light group 2, and the characters "ON 2" appear in the LCD. NOTE: The corresponding ON command is transmitted only after the UP button is finally released.

Thus, only one light group can be turned ON/OFF at a time. Pressing the DOWN Button · Briefly pressing the UP button will completely raise the sunblinds; in the LCD, the "sunblinds" symbol (= = =) moves upwards. Briefly pressing either the UP or the DOWN button while the sunblinds are rising will stop the sunblinds, and the LCD will revert to the default display. Pressing the UP button for more than 2 sec will raise the sunblinds only as long as it remains pressed; in the LCD, the "sunblinds" symbol (= = =) moves upwards. Pressing the DOWN button will turn OFF the two light groups as follows: · Pressing the DOWN button once turns OFF light group 1, and the characters "OFF 1" will appear in the LCD. · Pressing the DOWN button twice turns OFF light group 2, and the characters "OFF 2" will appear in the LCD. NOTE: The corresponding OFF command is transmitted only after the DOWN button is finally released. Thus, only one light group can be turned ON/OFF at a time. "UP" = Light 1 and "DOWN" = Light 2 usage (P6:3) Pressing the UP Button for Light Group 1 Pressing the DOWN Button · Briefly pressing the DOWN button will completely lower the sunblinds; in the LCD, the "sunblinds" symbol (= = =) moves downwards. @@@@ Cycling with the UP butMODULE CONFIGURATION MODE By configuring the T7270B2009, the user can alter its functions / displays to better reflect the actual operating environment (e. g. @@To configure the T7270B2009, proceed as follows: 1. @@@@2. Release both buttons. @@PA). @@3. @@"1" or "2"). 4. Confirm your selection by pressing the UP button. 5. @@ · The max. range is -5...+5 K. The min. range is -1...+1 K.

@@ · The default configuration is -3...+3 K. @@ · The runtime has a range of 1...99 s. @@ · The default runtime is 60 s. P6: Light Groups With this parameter, the user can configure whether only a single group of lights or two groups of lights are present.

· P6:1 Only a single group of lights is present. · P6:2 Two groups of lights are present. Pressing the UP button turns ON light groups 1 and 2 and pressing the DOWN button turns OFF light groups 1 and 2. · P6:3 Two groups of lights are present. Pressing the UP button turns ON/OFF light group 1 and pressing the DOWN button turns ON/OFF light group 2.

This is the default configuration. · P6:4 and P6:5 are currently used with special custom models, only. Do not set these parameters. · P6:6 No LIGHT function is disabled and the SUNBLINDS function becomes the default function P7: Room Temperature Correction Value With this parameter, the user can correct the room temperature value displayed in the LCD and transmitted to the W7070A2000 Wireless Receiver. · A value of 50 means "no change", i. e. the temperatures measured by the T7270B2009 are displayed/transmitted without correction. This is the default configuration. · Values of 49, 48, 47, etc. mean that the temperatures measured by the T7270B2009 are displayed/transmitted with a correction of -0.1 K, -0.2 K, -0.3 K, etc. · Values of 51, 52, 53, etc. mean that the temperatures measured by the T7270B2009 are displayed/transmitted with a correction of +0.

1 K, +0.2 K, +0.3 K, etc. Configuration Parameters P1: Temperature Unit With this parameter, the user can configure the unit (°C or °F) in which the room temperature and (relative) temperature setpoint offset are displayed: · P1:1 Temperatures are displayed in °F. · P1:2 Temperatures are displayed in °C. This is the default configuration. P2: Default Display With this parameter, the user can configure the default display: · P2:1 The default display shows the setpoint offset. · P2:2 The default display shows the current room temperature. This is the default configuration. P3: Fan With this parameter, the user can configure the fan (i.

e. establish whether a fan is present and how many speed levels it has) as well as enable/disable the FAN function: · P3:1 No fan is present in the room. This configuration disables the FAN function. · P3:2 An ON/OFF fan is present. This configuration enables the FAN function.

· P3:3 A 2-speed fan is present. This configuration enables the FAN function. · P3:4 A 3-speed fan is present. This is the default configuration. 5 EN1B-0398GE51 R1207A T7270B2009 WALL MODULE P8: Unoccupied Room With this parameter, the user can configure the SETPOINT OFFSET function and the FAN function to be enabled / disabled whenever the user has used the OCCUPANCY function to manually force the controller into the "unoccupied" state: · P8:1 The FAN function and the SETPOINT OFFSET function are both enabled.

This is the default configuration. · P8:2 The FAN function is enabled and the SETPOINT OFFSET function is disabled. · P8:3 The FAN function is disabled and the SETPOINT OFFSET function is enabled. · P8:4 The FAN function and the SETPOINT OFFSET function are both disabled. P9: Disable/Enable SUNBLINDS Function With this parameter, the user can enable/disable the SUNBLINDS function: · P9:1 There are no sunblinds present in the room. This configuration disables the SUNBLINDS function. · P9:2 One set of sunblinds is present. This configuration enables the SUNBLINDS function. This is the default configuration. · P9:3 and P9:4 are currently used with special custom models, only.

Do not set these parameters. PA: Disable/Enable OCCUPANCY Function With this parameter, the user can enable/disable the OCCUPANCY function: · PA:1 This disables the OCCUPANCY function. · PA:2 This enables the OCCUPANCY function. · PA:3 This partially disables the OCCUPANCY function. Specifically, the user can then no longer manually force the controller into the permanent "unoccupied" (" ") or "occupied" (" ") states. However, he can still manually force the controller into the "occupied" state for a limited time (" "). This is the default configuration. PB and PC Currently used with special custom models, only. Do not set these parameters. · PB: Sunblind Grouping (default: 1 sunblind group) · PC: Sunblind Short/Long Button Press 1. ..60 sec (default: 99 = disabled) MOUNTING Mount the T7270B2009 on an inside wall approximately 54 in. (1.3 m) from the floor (or as specified on the installation drawings) to allow exposure to the average zone temperature.

Do not mount the T7270B2009 on an outside wall, on a wall containing water pipes, or near air ducts. Avoid locations that are exposed to discharge air from registers or radiation from lights, appliances, or the sun.



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*Fig. 4. Mounting Removing the Housing Cover The T7270B2009 comes with a sub-base that mounts separately for ease of installation. The housing cover can be removed as follows (see also Fig. 5): 1. Insert the tip of an awl or a similar narrow, pointed implement into the small hole in the latch. 2. Pry off the cover. Set-Up Because of interference from other devices and the building structure, it is not possible to exactly define the wireless transmission range. See W7070A2000 Receiver Installation Instructions (EN1B-0396GE51) for information on installing wireless systems. Fig. 5. Opening the housing EN1B-0389GE51 R1207A 6 T7270B2009 WALL MODULE Batteries The batteries (two standard alkaline AA or LR6 or AM3 batteries) have a min.*

*lifetime of 2 years. Inserting Batteries 1. Open the housing (see Fig. 5) by pressing the snap-on lock on the bottom of the housing while removing the cover. @@@@Always replace both batteries. Use only 1.5 V mignon batteries of the type AA or LR6 or AM3. Ensure that the polarity is correct (see Fig. 6 on page 8). 3.*

*@@@@6. T7270B2009, dimensions in mm Honeywell Manufactured for and on behalf of the Environmental and Combustion Controls Division of Honeywell Technologies Sàrl, Ecublens, Route du Bois 37, Switzerland by its Authorized Representative: Automation and Control Solutions Honeywell GmbH Böblinger Straße 17 D-71101 Schönaich Phone: (49) 7031 63701 Fax: (49) 7031 637493 <http://ecc.emea.honeywell.com> Subject to change without notice. Printed in Germany This document is definitive for the enclosed product and replaces all previous publications. Honeywell Inc. hereby declares that this device complies with the basic requirements and other relevant regulations of guideline 1999/5/EC. The declaration of conformity of the product can be requested from the manufacturer. Note to non-E.*

*U. countries: This product may only be used if operation in the 868 MHz frequency band is permissible. EN1B-0398GE51 R1207A .*



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