

GLADIOLA

DAMPER REMOTE CONTROL (R/C) UNIT

R/C MODEL: ATRC-D AlfaSmart P/N 1098734

PRODUCT DATA

Automatic control of room temperature modulating the optimal air quantity with 5 damper shutter positions: 0% (closed), 25%, 50%, 75%, and 100% (opened) entering the room from the HVAC unit. Manual control on air quantity entering the room from the HVAC unit. To adapt to any existing HVAC systems.

Remote Control wireless unit- ATRC-D "room thermostat" with "I FEEL" mode + wall bracket with 2 Batteries AAA to communicate with electronic IR Receiver Unit model ATDC-1.



ATRC-D

FEATURES

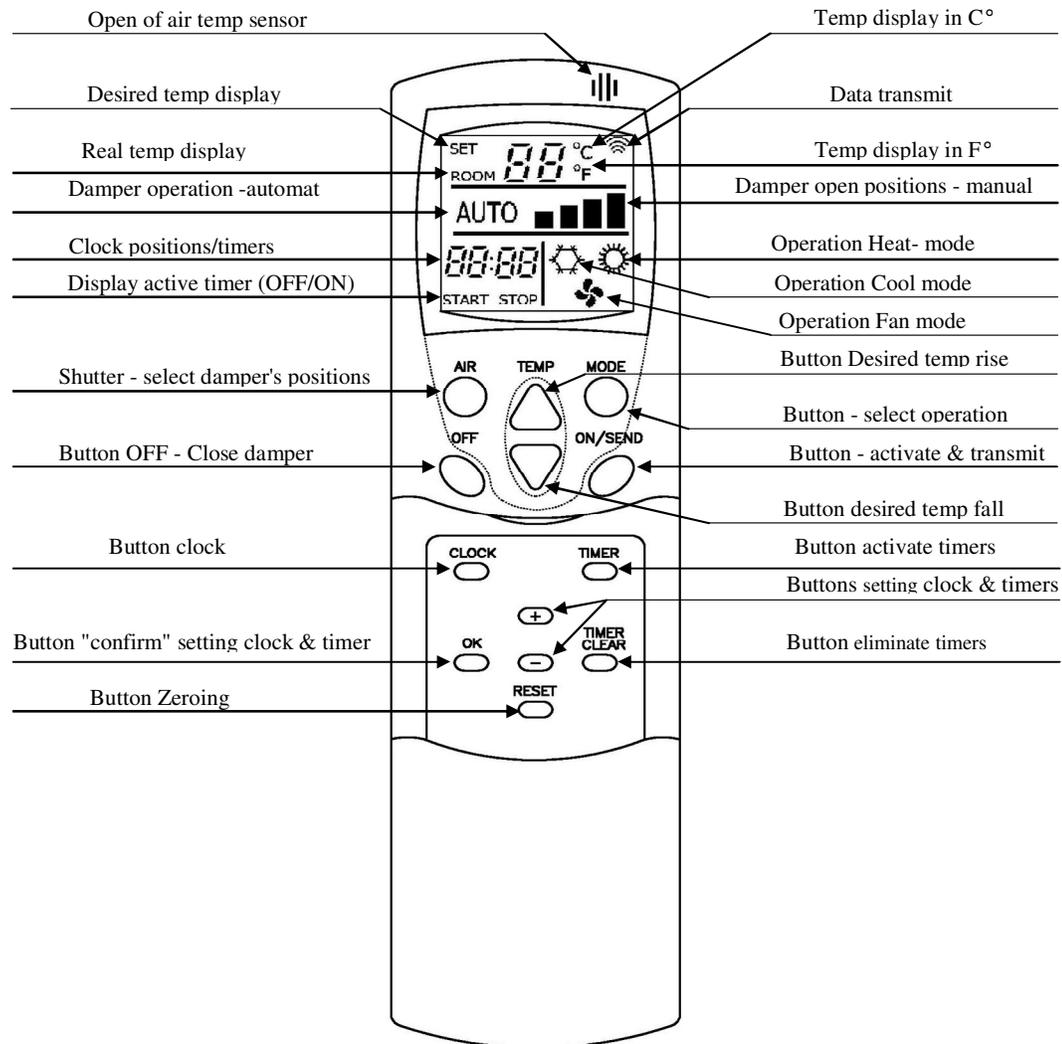
ATRC-D Remote Control (room thermostat) with built-in temperature sensor transmits in two ways: manual by the operator or automatically every 7 minutes to the IR Receiver located in the room itself. The R/C includes a real-time clock and 2 timers (START and STOP) allowing pre-programming ON or/and OFF.

IMPORTANT: For proper communication, it is necessary to locate R/C unit at eye-sight with IR Receiver. Normal range is approximately 23 ft (7 meters).

SPECIFICATIONS:

- Operating voltage: Alkaline batteries – 2 x 1.5 V ($\pm 10\%$), AAA size.
- Wireless thermostat functioning.
- Measurement temperature range: (+) 8°C (46°F) up to (+) 37°C (99°F).
- Measurement resolution: 0.5°C (1°F).
- Operation modes: Cool, Heat, Ventilation.
- Programmable timer: 0 – 24 [h]. On/Off operation.
- "I – Feel" Function. (Built in NTC Temperature sensor).
- 7 minutes data transmitting cycles.
- Functions, modes of operation and damper unit modulation LCD Display.
- Real Time clock.
- Silicon rubber push buttons.
- Operation Relative Humidity: 10% to 90% (Non-condensing).
- Storage Environment: (-)10°C to (+)50°C, with 5% to 95% RH (Non condensing).
- Dimensions: 1.26 x 2.05 x 5.32 inch, (32 x 52 x 135 mm).
- R/C enclosure ABS, UV-resistant.
- R/C Wall mounting holder, ABS, UV resistant.

R/C UNIT PUSH-BUTTONS CHARACTERISTICS



- Pushing red button **"ON/SEND"** activates the system. As well transmits all data displayed in the screen to the IR Receiver. Upon pushing one of the desired temperature buttons desired temp is automatically displayed, real room-temperature returns 4 seconds after release of button.
- Pushing blue **"OFF"** button transmits shut off command to the system. At this stage the screen will show room temp and Clock only.
- Pushing **"MODE"** button selects work mode by flashing at the various icons on the screen. For selection and activation of selected work Mode you must push red **"ON/SEND"** button within 5 seconds from Mode selection to send signal to IR Receiver.
- Upon selecting of **"COOL"** mode desired temperature will automatically show 21°C (70°F).

- Upon selecting of "**HEAT**" mode desired temperature will automatically show 25°C (77°F).
- Upon selecting of "**VENTILATION**" mode the real temperature will show. Desired temp. unavailable.
- Upon setting desired temperature - push "**ON/SEND**" within 5 seconds from release of temperature buttons, to send signal to IR receiver.
- Change temperature display between °C & °F by simultaneously pushing the 2 temp buttons for 4 seconds.
- Pushing button "**AIR**" is to select damper's operation modes: one of 5 settings. Pushing "**ON/SEND**" button within 5 seconds after "**AIR**" mode selection to send signal to IR Receiver to confirm selection.
- **Setting of real-time clock:** Push on button "**CLOCK**" will cause clock display to flash. Push on button "+" will advance clock time by 1 minute each push. Upon continuous push on buttons "+" or "-" the clock's advance will be forward or backward at 1 hour per 1 second. The clock is of "24 Hours". Setting of time - by push on orange button "**OK**". If button "**OK**" is not pushed within 5 seconds from release of buttons "+" or "-", the clock will not be set and Time display will return to its last setting before beginning of setting.
- **Time Adjustment:**

Timing of opening or closing of damper is available by R/C timers. Timers operation depends on setting of clock to real time.

Counting of "**ON**" or "**OFF**" performed via R/C itself. At end of the pre-set time counting for start the R/C will transmit command "**ON/SEND**" to IR Receiver and the damper will be activated. At the end of pre-set time counting for Shut-off the R/C will transmit command "OFF" IR Receiver and the damper will shut-off. These command transmitting are special and do not activate the IR Receiver buzzer. Upon timers active - display "START" and / or "STOP" show on screen. These displays will vanish at end of timer's program, setting and erasing of timers. Push on button "**TIMER**" starts Time clock for activating. "START" will flash. Setting of start time - by push on buttons "+" or "-" as in clock setting.

End of time setting must be confirmed by push on button "**OK**". If button "**OK**" is not pushed within 5 seconds from release of "+" or "-" buttons, timing will not register in memory and timer's display will return to its former position before beginning of setting. Upon request for setting timer to shut-Off, same order of steps should be done as in start setting, but timer's screen should show "STOP" by double push on "**TIMER**" button.

Timers erasing performed by approach to proper timer with push on button "**TIMER**" and erasing of the pre-programmed time by continuous push on "**TIMER CLEAR**".
- Zeroing button "**RESET**" eliminates all data on screen, displays for 1 second all the icons of the screen and ends by leaving room temp display and 4 flashing lines at the clock display.
- "**Weak**" Batteries: Attention: Long operation time of R/C thermostat will cause low quality display at the LCD screen of the R/C. At this stage the batteries should be replaced. At the R/C back - a sliding cover. Remove it and change batteries: **Alkaline AAA**. Install batteries at proper polarity. After change - reset clock to real time.