

# Display and operation



# **Operation modes and symbols**

Î	Comfort (occupied)	All control functions operating per set points.
Ŕ	Economy (unoccupied):	Set points shifted according to <i>Parameters FC04.</i> Economy mode and set point shift may be disabled with UP06
OFF	Energy hold off	Outputs are off, inputs monitored for alarm condition
۲	Heating	Output activates if temperature lower than set point
*	Cooling	Output activates if temperature higher than set point
*	Fan	Fan is running, the vertical bars show active speed 13
•	Manual	Manual override of fan speed, fan only mode or override of time schedule
Ð	Time schedule	A time schedule is active

## Display of set point instead of current temperature

As standard the current temperature is shown in the large digits. Should only the set point be shown, select UP10 = 1. The current temperature will then not be visible anymore.

### **Power failure**

All the parameters and set points are memorized and do not need to be reentered. Depending on **UP05** the unit will remain switched off, switch on automatically or return to the operation mode it was in before the power failure. *Deluxe version only*: Timer operation and daytime setting will be retained for 24 h. The controller has to be connected to a power supply for at least 10 hours for the backup function to operate accordingly.

### **Frost protection**

The controller will enter frost protection mode if the room temperature drops below 5 °C (41 °F). All heating outputs will be fully opened. Frost protection mode will be left once the temperature reaches 10 °C (50 °F). Frost protection display will remain until a button is pressed. Frost protection can be enabled/disabled using user parameter UP-09

### **Error messages**

- Err1: Temperature sensor faulty. The temperature sensor is damaged.
- Err2: External input for heat / cool auto change over missing or damaged.
- **FP:** Steady: Frost protection is active.

Blinking: Frost protection activated in the past and is now inactive. Confirm with OPTION key.



### Status LED

The status LED is located on the TLR-D5 base unit between the two low power terminal connector groups. The status LED may display the following feedback:

- No light: No power or unit is damaged
- Blink every 1s: Error, terminal base unit do not match or signal is not clear.
- Blink every 2s: Normal communication, base unit detected
- Blink every 5s: Base unit operates normal, no terminal detected

# Manual heat - cool - fan only change

To manually change heating / cooling / fan only mode press the OPTION key to	SEL
scroll through modes, changes are reflected by conditioning mode symbols	H-C
changing on the screen with each press of the option button.	** * *

### **Clock operation**

The deluxe model contains a quartz clock with battery back-up. Up to 4 time schedules with each 4 mode changes based on time and day of the week may be programmed. A blinking clock indicates that the time has not been set or if the unit was without power for longer than 48 hours. The time needs to be set to allow time schedules to operate.

#### **Clock setup**

Press OPTION > 2 s SEL and current time displayed       SEL         Press OPTION < 2 s to change time,       00         Minutes blink: UP/DOWN to changes, OPTION to save,       DA         Press OPTION to save time,       DAY1 blinks: UP/DOWN to change, OPTION to save		on)			
Creating time schedules					
Step 1: Selection and enabling of time schedules					
Press OPTION > 2 s SEL and current time displayed Press UP: SEL and PRO displayed, clock symbol blinks Press OPTION: PRO1 shows with 1 blinking. UP/DOWN select time schedule group Press OPTION OFF( ON blinks, UP/DOWN to change, OPTION to save	SEL PRO	Pro1Pro4 OFF/ON			
Step 2: Select weekdays					
This time schedule will be active during the selected weekdays Press UP/DOWN to step through available options:	Pro1 d1-7 Pr01 no				
Uni = University mode, Reset (UP17) not active if manually activated Press OPTION to select switching time of first event					
Step 4: Selected time of first switching event					
Press UP/DOWN to select switching time: Select switching time 00:00 to 23:45 in 15-minute steps Press OPTION to complete and select action of second switching event	Pr01 08:00				
Step 5: Select actions and time of switching event 24					
Repeat Step 3 and Step 4 for the remaining switching events. If a switching event is not needed, set it to "no" The bars on the right side indicate number of switching event After completing the 4 <sup>th</sup> switching event, the process returns to the selection of the time sche	Pr01 08:00				

- → UNI: University mode: This switching mode is used for rooms such as lecture rooms and auditoriums that might be occupied during a certain time. During this time the reset is not active. The unit will not start itself when UNI mode is active. It still needs to be manually activated. This is to avoid unnecessary heating or cooling of such rooms while they are not occupied.
- → A blinking clock indicates that the time needs to be set. Time programs will not operate if the time is not defined. See chapter operation, advanced settings for instructions on how to set the time.
- → Access to time schedules may be disabled with UP-04