INSTALLATION INSTRUCTIONS
OPTION 1000

Comfort Regulation (Carel pCO controller)
## <u>Quick Start guide</u>

Description

The option 1000 equipped with the Carel pCO controller, ensures a full automatic control system for Reznor Air Handlers in combination with several possible options (cooling, multistage heating, free heating/cooling, humidifier, pressure switches, alarm management, …)

pGD1 terminal

This terminal is used to control one or multiple Reznor units with pCO controllers.

⬛ Alarm: Press to view active alarms. Press again to deactivate alarm.

⬛ Prog: Press to enter main menu.

⬛ Esc: Return to main screen or previous menu.

⬛ Enter: Enter screen to change parameters or confirm parameter.

⬛ Down: Go to next screen (when cursor is in upper left corner) or change parameter (when cursor is on parameter).

⬛ Up: Go to previous screen (when cursor is in upper left corner) or change parameter (when cursor is on parameter).
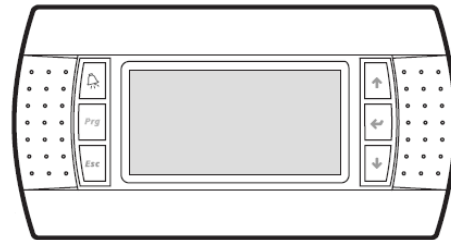
Main screen

This is the main screen that indicates the current room temperature, the current temperature setpoint, the current time and the unit state. The unit state is depicted by 4 different pictures: gas heating (🔥), heat pump heating (❄), cooling (❄), fan (🌀). If the unit is off, the reason is also described on this screen (for example: by scheduler, by terminal or by alarm).

### *Main menu*

The main menu can be accessed from the main screen by pressing the ⬛ key. An item from the menu can be selected by using the ⬛ and ⬛ keys. The selected menu item can then be accessed by pressing the ⬛ key.

The main menu consists of 8 menu items:
A. On/Off Unit
B. Setpoint
C. Clock/Scheduler
D. Input/Output
E. History
F. Board switch
G. Service
H. Manufacturer

A. ⏻ On/Off Unit

This screen can be used to manually turn on/off the unit. The current state and address of the unit is also stated on this screen. Press ⏎ to move cursor on the screen, then press ⬇ or ⬆ to change state and ⏎ again to confirm.
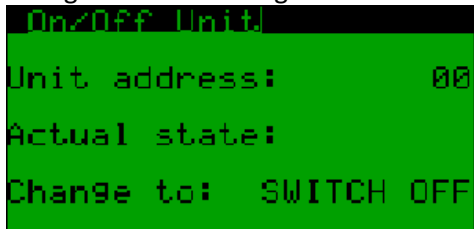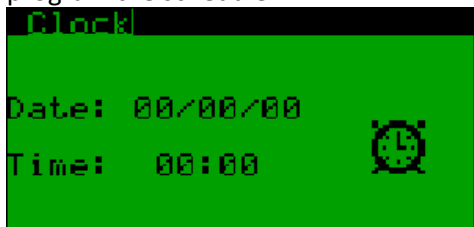

B. ▦ Setpoint

If the setpoint is controlled locally, these screens can be used to change day and night setpoints for winter and summer.
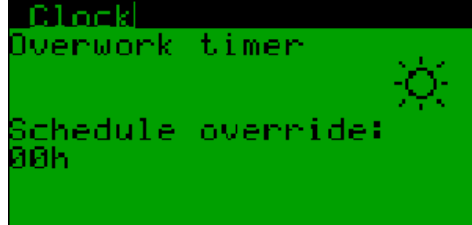

C. ⊕ Clock/Scheduler

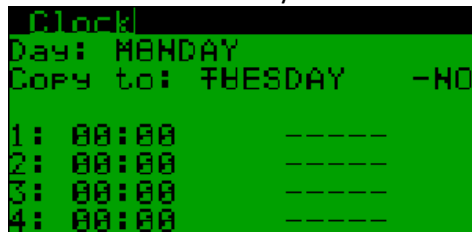These screens are used to change the current date and time, activate the overwork timer and program the schedule.

The overwork timer overrides the current schedule for a specified time. During this time the "day"-schedule is used.

```
 Clock
Overwork timer
                        ☼

Schedule override:
00h
```

The day scheduler makes it possible to program up to 4 different time zones for each day of the week. For each zone it is possible to choose between "OFF", "DAY", "NIGHT". "OFF" means that the entire unit is off, "DAY" means the "day"-setpoint is used and "NIGHT" means that the "night"-setpoint is used.

It is possible to copy the schedule of each day to another day (for faster programming). This is done by moving the cursor to the "Copy to:" field, then using the ⬇ and ⬆ keys to select the desired day (or "ALL" days), pressing ↵ to move the cursor to "NO", then changing this to "YES" with the ⬇ and ⬆ keys and confirming with ↵.

```
 Clock
Day: MONDAY
Copy to: TUESDAY    -NO

1: 00:00        -----
2: 00:00        -----
3: 00:00        -----
4: 00:00        -----
```

The next screen allows to program up to 3 holiday periods. This holiday program takes priority over the daily scheduler.

```
 Clock
Period scheduler

Start Stop
--/-- --/--     -----
--/-- --/--     -----
--/-- --/--     -----
```
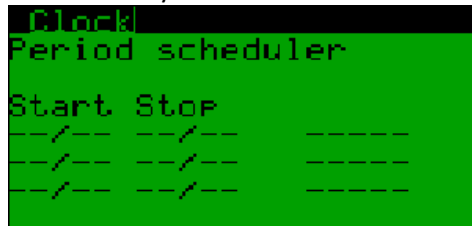
The next screen allows to program up to 6 special days. Special day programming takes priority over holiday period and daily scheduler.

```
 Clock
Spec.days
SD1:--/--       -----
SD2:--/--       -----
SD3:--/--       -----
SD4:--/--       -----
SD5:--/--       -----
SD6:--/--       -----
```
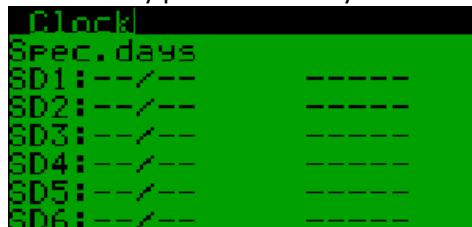
D. ▦ Input/Output

These screens allow viewing the state of all current inputs and outputs. These are described as they are present on the controller. Depending on the configuration, different inputs/outputs will be used, but all inputs/outputs are visible on these screens.
See the list of inputs/outputs or the wiring diagram to view the functionality of each input/output.

E. ▦ History

A history of the last alarms can be viewed here. The alarm code, as well as the time the alarm occurred is stored.

F. ▦ Board switch

This screen can be used to view the status of the network (between controllers and terminals).
It is also possible to change the unit that this terminal is controlling (if it is a shared terminal).
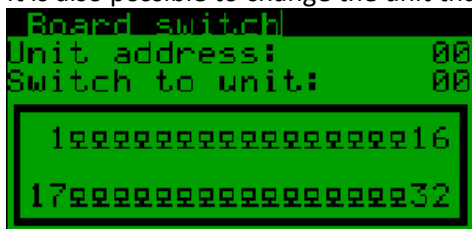
G. ▦ Service

The service menu contains information about the unit and installer access for advanced settings.
a. Change Language: Change the language of the controller.
b. Information: View information about the software and about the controller.
c. Summer/Winter: Control the setpoints for summer/winter changeover.
d. Working hours: View the amount of working hours for the fans, gas heating and compressors.
e. BMS config.: Configure the connection with building management systems.
f. Service settings: Advanced settings (requires service password, available on demand).
g. Manual management: Manual control of certain outputs (current regulation is overridden).

H. ▦ Manufacturer

This menu is used by the manufacturer (manufacturer password is required).

Subject to modifications