CS2500 V2

EN **QUICK GUIDE**
ProNordic

Contents

⇄ FLEXIT

1. Quick guide

1.1. HMI ProPanel

A central element in the system is the HMI (control panel), where you can adjust settings and take readings. The control panel consists of an 8-line graphic display, indicator lamps and controls for the settings. Here is a short introduction to the control panel showing how to enter the initial settings in the system.
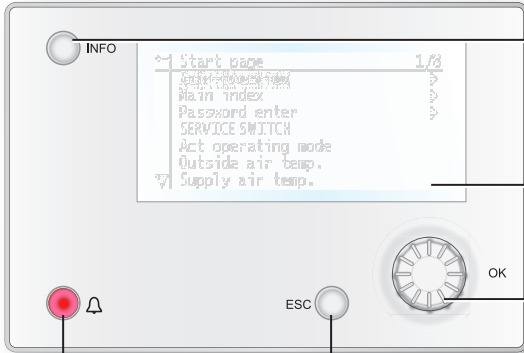
Info button
Press to enter the main menu
- Off = Stop, cool down
- Red lamp = Fire
- Green lamp, steady = Normal operation
- Flashing green = Starting, Night operation test, Nighttime cooling or Night heating/nighttime cooling.
- Orange lamp, steady = Emergency stop, Alarm stop
- Flashing orange lamp = Fire damper exercise, not in service
- Alternating green/orange = Manual control of output or operating mode

Display
Shows information

Dial
- Turn anticlockwise/clockwise to go up/down in menus or to change values
- Press the button to enter a menu or change a value
- Hold the button down to go directly to the login menu if the value you want to change
- requires login.

Alarm button
- Flashing red = alarm
- Red lamp, steady = alarm acknowledged but remaining

ESC button
- Returns to the previous menu page
- Cancels current editing

1.2. Settings

1.1.1. Introduction

The first time the system is started, you need to go through some simple steps to ensure that the system will function.

If a heating coil has been installed in the ventilation unit, this must be configured in the control system (see heating coil manual). There is a quick menu for accessing the commonest functions on the control panel, Language, Timing program and Set point settings.

1.1.2. Select language

To change the language on delivery:

Start page > Quick menu > Commissioning > Language selection

Select your preferred language.

1.1.3. Login

In order to make changes to the system, it is normally necessary to log in. There are four authority levels in the system, and three of them are password protected. The level at which the user is currently logged in is shown by the number of keys in the top left hand corner of the display. The menus show more options or fewer, depending on the level at which you are logged in.

The following key symbols will be used from now on in the manual to describe the login level before the different menus/functions can be made visible and editable. The same key symbols are shown at the top left of the control panel.

The following actions are possible at the different levels:

Level 1: No restrictions, no password required.
- Read access to all menus except system parameters, configuration and detail menus.
- Read access to alarm lists and alarm history.

Level 2: End user, password 1000.

One key symbol   🔑

- All rights as for level 1, plus:
- Read access to all menus except configuration menus.
- Write access to the most important setpoints (Setpoints/Settings > Setpoints).
- Alarms and alarm history can be acknowledged and reset.

Level 3: System administrator, password 2000.

Two key symbol   🔑

- All rights as for level 2, plus:
- Rights to all menus except I/O configuration and system settings.

Level 4: OEM, password given only in consultation with the Flexit service organisation.

Three key symbol   🔑

- All rights as for level 3, plus:
- Rights to all menus and system settings.

Start page > Main menu > Enter PIN

1.1.4. Set time/time channels

🔑 **Start page > Quick menu > SetUp > Date/ Time Input**

1.1.5. Set the calendar and timing program

🔑 **Start page > Quick menu > SetUp > Timeswitch program**

General
This section describes functions and settings for the timing program and calendars.

When no object with higher priority (for example Manual control <> Auto) is activated, the system can be switched off or the steps changed via the timing program.
A maximum of six switch-over times can be specified per day.
The calendar stop overrides the calendar exception, which in turn overrides the normal timing program (only in operating mode). Up to 10 periods or exception days can be specified for each calendar.

ⓘ **NB.** Both setpoints for fan steps and temperature setpoints (comfort /economy) are controlled by the timing program.

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1.1.6. Week schedule

Parameter	Value	Function
Present value	---	Switch-over according to schedule
Monday		Shows current command when the current day is Monday. The latest time that can be entered for a day is 23:59. Go to the daily switch-over schedule for Mondays.
Copy schedule	-Mo -Tu-Fr -Tu-Su -Tu -We -Th -Fr - Sa -Su -Ecpt	Copies times for the timing program from Monday to Tuesday-Friday/Tuesday-Sunday. -Passive (no copying). -Copying starts. Return to the display screen. -Exception
Tuesday		Same function as for Monday.
...		...
Sunday		Same function as for Monday.
Exception		Shows current command when the current day is an exception day. Go to the daily switch-over schedule for exception days.
Period: Start		(Only Authority level 3.) Start date for weekly schedule. *,**. 00 means that the weekly schedule is always activated. ---> Activate weekly schedule.
Period: End		(Only Authority level 3.) Start date and time for disabling of weekly schedule.

1.1.7. Day schedule

Parameter	Value	Function
Present value	---	Switch-over according to the schedule when the current weekday is the same as the switch-over day
Day schedule	-Passive -Active	Status for current week or exception day: -Current weekday (system day) is not the same as the switch-over day. -Current weekday (system day) is the same as the switch-over day.
Time-1		This is locked to 00:00
Value-1	Off Eco.St1 Comf.St1 Eco.St2 Comf.St2 Eco.St3 Comf.St3	Indicates the unit's operating mode when Time-1 occurs
Time-2	00:01-23:59	Switch-over time 2. *:* ---> Time inactivated
Value-2 ... Value-6	Off Eco.St1 Comf.St1 Eco.St2 Comf.St2 Eco.St3 Comf.St3	Indicates the unit's operating mode when Time-2 occurs
Time-3 Time-6	00:01-23:59	Switch-over time 3-6. *:* ---> Time deactivated

1.1.8. Calendar (exceptions and stop)

Exception days can be defined in the calendar.
These can include specific days, periods or weekdays.
Exception days override the weekly schedule.

Calendar exceptions
Switch-over follows the weekly schedule and the exceptions specified in the daily schedule when a switch-over time is activated in the calendar exception.

Calendar stop
The system is turned off when the calendar stop is activated.

Parameter:

➤ **Start page > Quick menu > SetUp > Timeswitch program > Calendar execption**

➤ **Start page > Quick menu > SetUp > Timeswitch program > Calendar fix off**

Parameter	Value	Function
Current value	-Passive -Active	Shows whether a calendar time is activated: - No calendar time activated - Calendar time activated
Selection -x	-Date -Interval -Weekday -Passive	Specification of exception type: -A certain day (e.g. 1 May) -A period (e.g. holiday) -A certain weekday -Times are deactivated This value must always be placed last, after the date
-(Start) Date		-Selection-x = interval: Enter the start date for the period -(Selection-x = Date: Enter specific date)
-End date		-Selection-x = interval: Enter the end date for the period The end date must be later than the start date
Weekday		-Selection-x = only weekdays: Enter a weekday.

Example: Selection-x = Date

Only the time for (start) is relevant.

- (Start)Date = *,01.01.16
  Result: 1 January 2016 is an exception date.

- (Start)Date = Mo,*.*.00
  Every Monday is an exception day

- (Start)Date = *,*.Even.00

All days in even months (February, April, June, August, etc.) are exception days.

Example: Selection-1 = interval

The times for (Start)Date and End date are adjusted.

- (Start)Date = *,23.06.16 / -End date = *,12.07.16.

  23 June 2016 until end of 12 July 2016 are exception days (for example holidays).

- (Start)Date = *,23.12.16 / End date = *,31.12.16

  23-31 December are exception days every year. Time End date = *,01.01.16 will not work, because 1 January comes before 23 December.

- (Start)Date = *,23.12.16 / -End date = *,01.01.17.

  23 December 2016 up to and including 1 January 2017 are exception days.

- (Start)Date = *,*.*.17 / -End date = *,*.*.17

Warning! This means that the exception is always active! The system is constantly in exception mode or turned off.

Example: Selection-1 = Weekday

Selection-1 = Weekday

The times for weekdays are adjusted.
- Weekday = *,Fr,*

  Every Friday is an exception day.

- Weekday = *,Fr,Even
  Every Friday in even months (February, April, June, August, etc.) is an exception day.

- Weekday = *,*,*

Warning! This means that the exception is always active! The system is constantly in exception mode or turned off.

1.3. Adjust setpoints for speeds and temperatures

🔑 **Start page > Quick menu > Settings > Setpoints/Settings**

Parameter	Function
All settings	>
Comfort htg stpt	Indicates the temperature setpoint for comfort operation (daily operation)
Economy htg stpt	Indicates the temperature setpoint for economy operation (nighttime setback)
Sply fan st 1 stpt	Indicates the supply airflow step 1
Sply fan st 2 stpt	Indicates the supply airflow step 2
Sply fan st 3 stpt	Indicates the supply airflow step 3
Sply fan st 4 stpt	Indicates the supply airflow step 4
Sply fan st 5 stpt	Indicates the supply airflow step 5
Extr fan st 1 stpt	Indicates the extract airflow step 1
Extr fan st 2 stpt	Indicates the extract airflow step 2
Extr fan st 3 stpt	Indicates the extract airflow step 3
Extr fan st 4 stpt	Indicates the extract airflow step 4
Extr fan st 5 stpt	Indicates the extract airflow step 5

1.4. Service switch

The service switch is used to stop the unit for servicing.
NB. If the electric coil was active when the unit was turned off, there will be 180 seconds run-on time before the unit stops cooling the coil.

🔑 **Start page > SERVICE SWITCH**

Parameter	Function
Auto	The unit is controlled via time channel
Off	Service mode, the unit is stationary

1.5. Extract air regulation

As standard, the unit is configured to regulate the temperature via the supply air, but can easily be configured to regulate this via the extract air instead. To do this, go into the following menu:

🔑 **Start page > Main menu > Configuration > Configuration 1 > Tmp control mode**

Parameter	Function
Supply	Temperature regulation is controlled by the supply air temperature
ExtrSplyC	Temperature regulation is controlled as a function of the extract and supply air sensors and maintains the set extract air temperature

After making a change in a configuration menu, RESTART.

🔑 **Start page > Main menu > Configuration > Configuration 1 > Restart required! > Execute**

🔄 **RESTART**

To adjust limitations to the inlet temperature in the case of extract air regulation.

🔑 **Start page > Quick menu > Settings > Setpoints/Settings**

Parameter	Function
Supply tmp min	Indicates the lowest permitted supply air temperature
Supply tmp max	Indicates the highest permitted supply air temperature,

1.6. Changing the flow display units

The standard setting for the unit is m^3/h, but can easily be changed to l/s. When the units are changed, the setpoint values for airflow are automatically recalculated.

🔑 **Start page > Main menu > Configuration > Configuration 2 > Flow display**

Parameter	Function
No	Not used
l/s	Shows the airflow in l/s
m^3/h	Shows the airflow in m^3/h

After making a change in a configuration menu, RESTART.

🔑 **Start page > Main menu > Configuration > Configuration 2 > Restart required! > Execute**

🔄 **RESTART**

1.7. Alarm handling

If an alarm has been triggered, it will be shown by the flashing alarm symbol. You can get more information by pressing the alarm button. To reset the alarm, press the alarm button twice and select 'Confirm/Reset ' and then Execute in the menu.