

# FLEXIT CI 1000

## **E** User Manual Handheld terminal

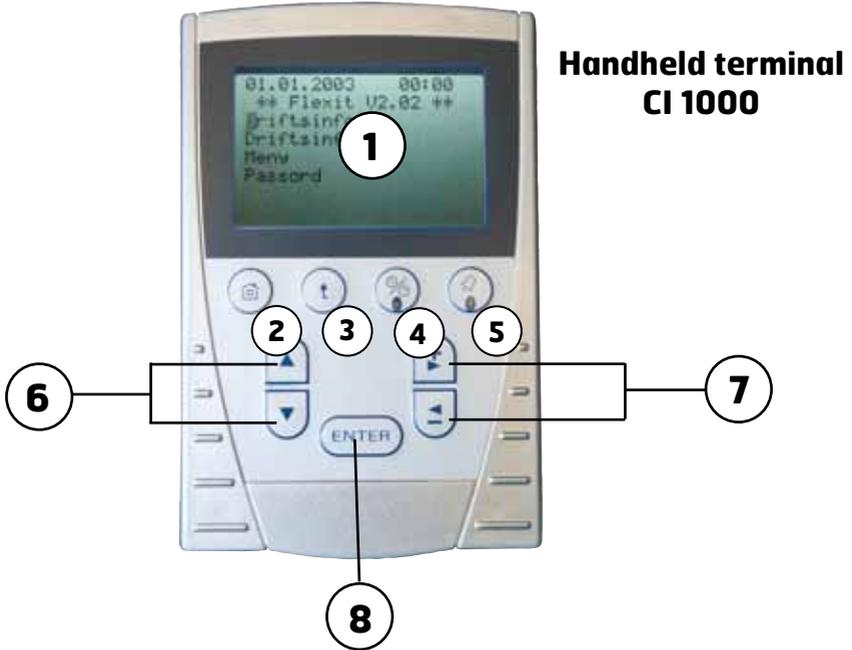


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# 1 Operation of the handheld terminal



	<b>Keys</b>	<b>Functions</b>
①	LCD with 8 lines, 20 characters	Display, shows current values and settings
②	Home key	Returns to the start page
③	Return key	Goes back one step in the menu
④	Start/stop key	Switches between start and stop
⑤	Alarm key with integrated LED	Shows current alarm(s)
⑥	Line selection key	Selects a menu/parameter/line
⑦	Change key	Changes values (+/-) Horizontal movement of the cursor
⑧	Enter key	Confirms a change of value

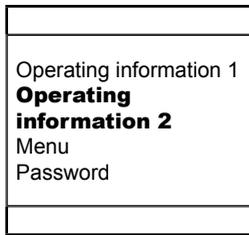
The password for some settings is: 1000

## 2 Operation of the handheld terminal

The menu items in the handheld terminal are designed in a tree structure. The trunk shows the main items, while the branches show either direct changes or submenus (pages 12-13).

### Operating information

If you enter the operating information 1 or 2 menu, you can read the unit's status. The information available includes the control selected, all temperatures, air flow rates, pressure, output signals to valve, heat recovery system, heating and cooling.



### Navigation

Press line selection  until you come to the desired selection. Confirm with . If you want to change values, go to the setting you want. Place the flashing cursor over the dark field to be changed and press . You can now change the value. Press  to lock the value.

### Service stop

To stop the unit, press the start/stop key (4). Remember to switch off the fuses before servicing the unit. You can read the current status on the handheld terminal.

### Date/time

Set the date and time (check that they are correct).

### Menu | Time channels

Time channels - Date/time first

The regulator has four time channels for changes in temperature and/or speed per day (day scheduler). It has six time channels for week (week scheduler) and 5 time channels for year (year scheduler). Programming in chronological order.

## 2.1 Language selection

Follow the menu structure below to select the right language in the panel. Remember to enter the password to gain access.

**Menu | Configuration | Parameter/  
System parameters | Language selection**

## 2.2 Day scheduler

Description

4 independent time changes can be selected under 'Day scheduler'. What can be set are the time for changing fan speed 1-2 (change in air flow rate/pressure) and the Comfort and Economy temperatures.

Input code

SETTINGS		
Operating setting	Fan speed	Operating method
Off	Off (stop)	Off
Economy	1	Ec1
Economy	2	Ec2
Comfort	1	Co1
Comfort	2	Co2

**Ec1 and Ec2 have different fan speeds but the same temperature.  
Co1 and Co2 have different fan speeds but the same temperature.  
Ec1 and Co1 have the same fan speed but different temperatures.  
Ec2 and Co2 have the same fan speed but different temperatures.**

Example

Example of day scheduler setup:

Time channels	Time change	Code	Enabled
T1	08:00	Co2	Active
T2	11:30	Co1	Active
T3	14:00	Co2	Active

T4	20:00	Off	Active
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**The day scheduler is used every day. Using a week scheduler, it is possible to select 6 exceptions from the day scheduler.**

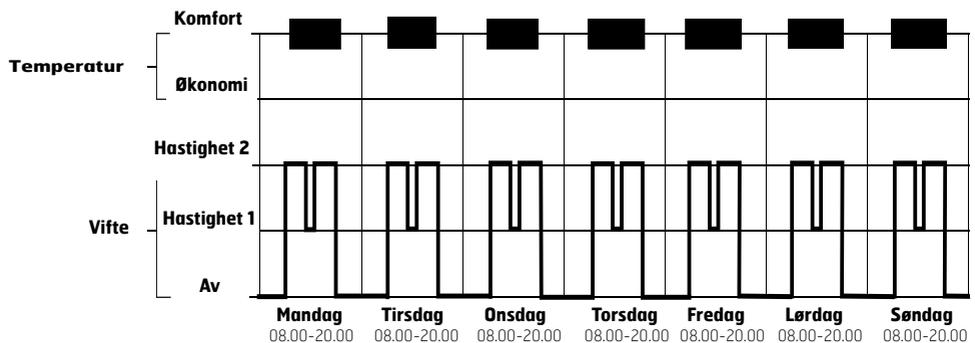
### Explanation

From 08.00 to 11.30 the unit will operate on comfort temperature (see temperature setting) and speed 2 (high). From 11.30 to 14.00 it operates on comfort temperature and speed 1 (low). From 14.00 to 20.00 comfort temperature and speed 2. From 20.00 to 08.00 the unit is stopped (off).

### Setting

**Menu | Time channels | Day scheduler | Set values**

Graphic presentation of time management using a day scheduler:



When you select settings, you must first set the time of the change and then set the operating speed (Co1-2/Ec1-2). Finally, you must select Active if you want to activate the time channel.

## 2.3 Week scheduler

### Description

The week scheduler is used to select a maximum of six deviations from the day scheduler.

### Example

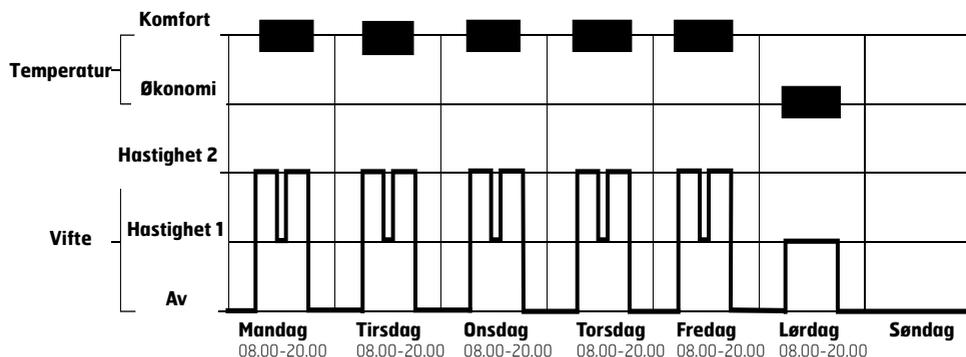
**Setup with weekly timer:**

Time channels	Day to switch on	Time to switch on	Day to switch off	Time to switch off	Function	Enabled
T1	Sat	08:00	Sat	20:00	Ec1	Actv
T2	Sun	08:00	Sun	20:00	Off	Actv
T3	Sat	08:00	Sun	18:00	Off	-----
T4	Sat	08:00	Sun	18:00	Off	-----
T5	Sat	08:00	Sun	18:00	Off	-----
T6	Sat	08:00	Sun	18:00	Off	-----

### Explanation

The unit will operate as in the day scheduler, except for the deviations on Saturday and Sunday. On Saturday it will operate with economy temperature and speed 1 between 08.00 and 20.00. It is off throughout Sunday. Graphic presentation of time management using a week scheduler:

### Menu | Time channels | Week scheduler | Set values



### Year scheduler

Used to set up to 5 deviations from the day/week schedulers, for example Christmas/New Year and holidays.

## 2.4 Temperature

### Description

You can set the temperature value you want here.

The following choices are available:

Heating - Comfort = Desired temperature when selecting comfort operation

Cooling - Comfort = Desired temperature when selecting comfort operation

Heating - Economy = Desired temperature when selecting economy operation

Cooling - Economy = Desired temperature when selecting economy operation

### Setting

#### Menu | Setpoint | Regulator

Parameter name	Value scale	Unit	Default value
Refresh setpoint			
Heating, comfort	10.0 - 40.0	°C	20.0
Cooling, comfort	10.0 - 40.0	°C	22.0
Economy, heating	10.0 - 40.0	°C	18.0
Economy, cooling	10.0 - 40.0	°C	24.0

### Temperature

Check in the timer programme what it is set to: Co (comfort) or Ec (economy).

The temperature can be set according to heating/cooling requirements.

Remember that there is a neutral dead zone between heating and cooling. This is factory-set to 2°C for comfort and 4°C for economy. If, for example, you are unable to increase the 'heating' temperature, you must first increase the cooling.

Remember to go to 'Refresh setpt. limit'; press . The heating can then be increased. The opposite applies if it is not possible to reduce the cooling.

## 2.5

### Air flow rate/pressure

You can select the setting you want for each fan separately (pressure or air flow rate) and you can also have different flow rate settings for the fans.

#### Menu | Setpoint | Pressure regulator

Example of setting of supply air fan:

Description

Pressure setting

### Setting

#### Menu | Setpoint | Pressure setting

Parameter name	Unit	Default value
SupplyPressureLow	Pa	150
SupplyPressureHigh	Pa	200
ExtractPressureLow	Pa	150
ExtractPressureHigh	Pa	200

Low/high corresponds to speeds 1 and 2 in the timer programme

For the air flow rate setting, use the same method as above but use the following setup:

#### Menu | Setpoint | Volume reg.

Parameter name	Unit	Default value
VolLowSupply	l/s	200
VolHighSupply	l/s	800
VolLowExtract	l/s	200
VolHighExtract	l/s	800

Low/high corresponds to speeds 1 and 2 in the timer programme

**The unit can also be controlled from an external regulator or sensor, for example a CO<sub>2</sub> sensor**

## 2.6 Regulation method

### Description

Choice of temperature regulation. The following alternatives are available:

1. Constant supply air regulation (Sup), factory default setting
2. Room/extract air regulation (Extr)
3. Differential regulation (Dif)
4. Outdoor air-compensated supply air regulation (Comp)

### Setting

#### Menu I Configuration I Regulation method I TempRegType

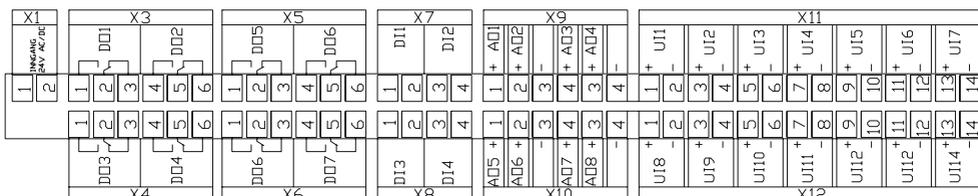
Parameter name	Value scale	Default value
TempRegType	Sup/Dif/Comp/Extr	Sup

## 2.7 Alarm acknowledgement

If the red LED flashes (key no. 5) or lights up, you can press the key once. You will then get an overview of all current error messages. If the error has been corrected, you can press the key once and the alarm will disappear. The light should then go out. If the light does not go out, the error has not been corrected.

Alarm point	Input	Description
A_Alarm	-	Joint alarm (class A alarm active)
B_Alarm	-	Joint alarm (class B alarm active)
LmSensorError	-	One or more temperature sensors are out of range (open or short-circuited)
AlarmHeatRecovFrost	UI6&UI7	Frost in cross heat exchanger
AlarmRotorGuardAlarm *)	DI1	Rotary wheel-type heat exchanger is not rotating
AlarmFireSmoke	DI2	Input for external fire/smoke alarm
AlarmErrorMotor-Protection *)	DI3	Overload, deviation alarm
AlarmTempAlarm	-	Adjustable temperature, deviation for supply air temperature
AlarmTempAlarm	UI14	Low temperature in heating battery water
AlarmErrorSupFan	-	Air flow regulation not at necessary setpoint
AlarmErrorExtrFan	-	Air flow regulation not at necessary setpoint
LmElecHtrO/H	(DI1 or UI6) & UIq4	Fire or overheating thermostats on electric battery (2 inputs)
AlarmRecovEff	-	Calculated heat recovery efficiency below alarm limit (rotor or plate)
AlarmOverrideAlarm	-	Some components or the entire unit are being operated manually from the HMI
AlarmSupplyAirFilter	UI8	Supply air filter dirty
AlarmExtractAirFilter	UI9	Extract air filter dirty

\*) The unit must be dead to reset the alarm.



**3 Menu settings**

