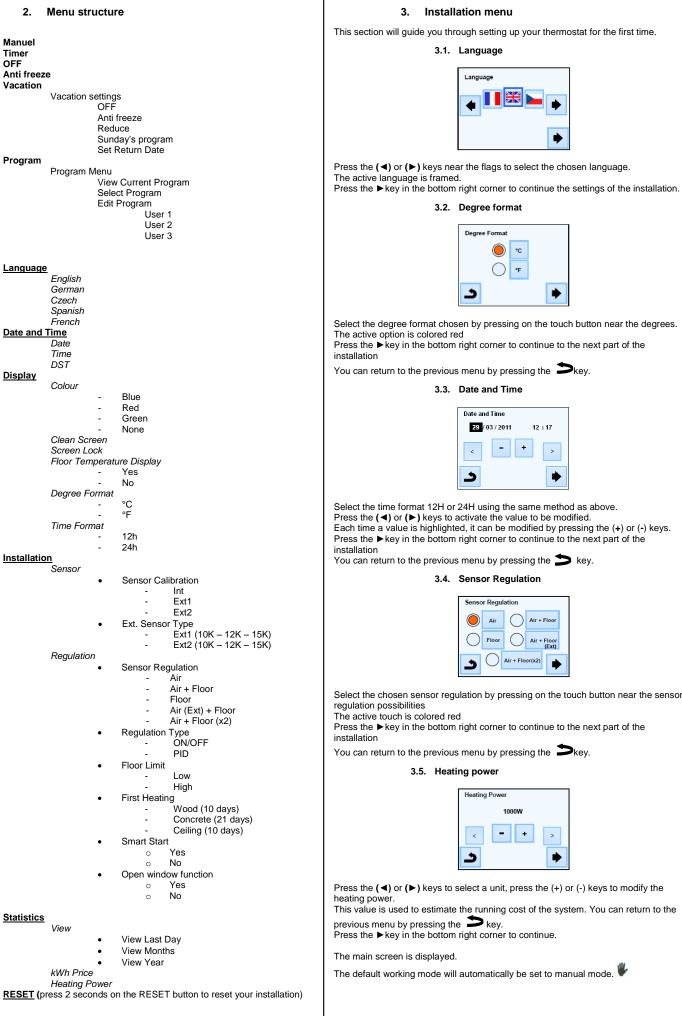
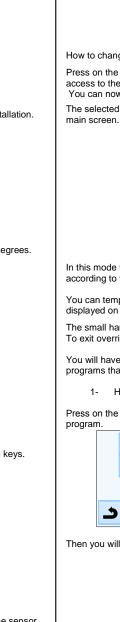
MIMPORTANT! Before starting work the installer should carefully read this Installation & Operation Mode Manual, and make sure all instructions contained therein are understood and Manuel observed. Timer - The thermostat should be mounted, operated and maintained by specially trained OFF personnel only. Personnel in the course of training are only allowed to handle the Anti freeze product under the supervision of an experienced fitter. Subject to observation of the Vacation above terms, the manufacture shall assume the liability for the equipment as provided by legal stipulations. - A scheme of connection is provided on a separate sheet. - All instructions in this Installation & Operation manual should be observed when working with the thermostat. Any other application shall not comply with the regulations. The manufacturer shall not be liable in case of incompetent use of the thermostat. Any modifications and amendments are not allowed for safety reasons. Program The maintenance may be performed by service shops approved by the manufacturer only. - The functionality of the controller depends on the model and equipment. This installation leaflet is part of the product and has to be obtained. APPLICATION - The thermostats are developed to control and manage all type of heating installations. - The controllers have been designed for use in residential rooms, office spaces and Settings industrial facilities Language Verify that the installation complies with existing regulations before operation to ensure proper use of the installation. ▲ SAFETY INSTRUCTIONS Before starting work disconnect the power supply! Date and Time - All installation and wiring work related to the thermostat must be carried out only when de-energized. The appliance should be connected and commissioned by qualified personnel only. Make sure to adhere to valid safety regulations. - The thermostats are neither splash- nor drip-proof. Therefore, they must be Display mounted at a dry place. - Do not interchange the connections of the sensors and the 230V connections under any circumstances! Interchanging these connections may result in life endangering electrical hazards or the destruction of the appliance and the connected sensors and other appliances. FIRST INSTALLATION Batteries inside the thermostat must be charged for at least 6 hours to reach maximum capacity to back up time. Installation 1. Product overview 81.51 Touch screen programmable thermostat specially designed to control different types of heating systems. The thermostat will allow you to optimize your energy consumption and increase your comfort levels. Modern design with touch screen - Simplified wiring & Installation. - "Easy program creation" function. - Fully programmable. - Temporary override function - Anti freeze function. Statistics - Holiday or Reception function. - Connections for 2 sensors - Estimation of the cost and consumption of the installation Optional 2 External sensors with several possibilities of regulation. (Floor, combined...)





 \bigcirc °C

() *F

12:17

1000W

- +

>

>

4. Mode of operation		
	Tue 01/03/11	12:15
Main screen	# 22.	5°c
	-	i
ge the current mode?		
key on the main screen and operating modes. v press the (<) or (>) keys to scr		

The selected mode is framed, to select a mode press the **>** key to return to the main screen



4.1 Programmable mode

In this mode the thermostat will follow the chosen program (Built-in or customized) according to the actual time

You can temporarily override the selected program, by pressing the temperature displayed on the main screen.

The small hand \P logo will be displayed when the override function is active. To exit override mode, switch to manual then back to automatic mode

You will have the choice between 4 built-in programs that can't be modified and 3 user programs that you can customize.

1- How to customize a user program

Press on the "Mode" button then on "Edit Program" button and choose a user



Then you will have to choose between 3 configurations:



a- Set day by day

You will set a new program for each day.

Automatically, the first day you will program is Monday.

The minimum program step is 15 minutes.

You will have to configure several periods.

The first period begins at 00:00. Then, choose the end time period with the (+) and (-) keys and the temperature to be followed during this period.



Press "Next" button to continue the program. The next period will start at the end of

the last period. For all periods you will define, you have to choose the end period and the

temperature. The last period stops at 24:00. Then press on the Next button

				_
User 1 Mon ->Tue 30	5. Special Function	6	Parameter's precision	
20	5.1 Keyboards lock Function Use this function to prevent all change of your settings (In a child room, public area)	N°	Default value & other possibilities	Mea
10 "F	To activate the Key lack function, first proce on Cattings . Display . Sereen Lack	In	DST: Daylight Summer time change Summer<->Winter	Env
	- To activate the Key lock function, first press on Settings -> Display -> Screen Lock - The " D " logo will be displayed on the screen.	Date and Time Menu	YES automatic change according to date. NO no daylight summer time automatic change.	Ope Ship
	- press on the b key and then press 7 seconds on the logo b	In	Probe Calibration	Set
		Installation	The calibration must be done after 1 day working with the same	Con Holi
Then, you can define another program for Tuesday by pressing the 'EDIT" button or you can copy the Monday Program by pressing the "Copy to" button	5.2 First heating	Menu -> Sensor	setting temperature in accordance with the following description: Put a thermometer in the room at 1.5M distance from the floor (like	Reg
Continue to program as above for the remaining days o f the week.	Generally, the function is used right after installation to prevent your floor from getting	-> Sensor	the thermostat) and check the real temperature in the room after 1 hour.	Elec
a- Set weekday / WeekEnd	damaged by the first heating.	Calibration	Select the probe you want to calibrate then use the (-) or (+) keys to enter the real value.	Max
You will determine 2 programs: 1 for the weekdays (Monday to Friday) and 1 for the weekend (Saturday and Sunday)	The first heating function works as follows: - Concrete : 2 hours of operation during 24 hours on the first day, and 1 extra hour is		Calibration is erased by the "RESET" function	Incl Opt
Use the same process as explained above to customize your program.	added every subsequent day, during 21 days. During this period, floor temperature (or room temperature unless floor sensor is activated) is limited to 20°C.		* Pay attention:	Sof
b- Set all Days at once	- Wood : 2 hours of operation during 24 hours on the first day, and 2 extra hour is		Only the heating element driven by the thermostat must be used during the complete step of the calibration.	Nor
You will determine 1 program which will be the same for every day of the week Use the same process as explained above to customize your program.	added every subsequent day, during 10 days. During this period, floor temperature (or room temperature unless floor sensor is activated) is limited to 20°C + 0,8°C*Nb of	In	Probes Type	
	days (20°C the 1 st day, 20, 8°C the 2 nd day, 21,6°C the 3 rd day,).	Installation Menu	For ext1 and ext2 probes, you can have different types of NTC. 10, 12 and 15K NTC are recognized.	You
1- How to choose a program	- Ceiling : 2 hours of operation during 24 hours on the first day, and 2 extra hour is added every subsequent day, during 10 days. During this period, air temperature is	-> Sensor	10K : B _{25/85} = 3950K	or o
Press on the "Mode" button then on "Program Menu" button, then "Select Program"	limited to 20°C.	-> Ext sensor	12K : B _{25/85} = 3740K 15K : B _{25/85} = 3965K	Mod
button you can choose between 4 built-in programs and 3 user programs. Use the "See Next" button to scroll through the different programs and the "Select"		type		Mea
button to confirm your selection.	5.3 Open window function	In	Air : only internal probe is used, no floor limitation	Bat
You can view the current program by pressing on "View current program".		Installation Menu	Air + Floor : internal probe is used for the regulation and Ext1 for floor limits	
If you return to the main screen, press on the -1_r button to see the current program.	The user activates / de-activates the function in the Open Window menu.	-> Regulation	Floor : only Ext1 probe is used for regulation, no floor limitation Air (Ext) + Floor : Internal probe is not used, regulation is done	
	Conditions of open window detection:	-> Sensor	with Ext1 and floor limitation by Ext2	
4.2 Timer mode	The thermostat detects an "Open window" if the displayed temperature (internal or ambient sensor) decreases by 3°C or more during a 5 minutes period (or less).	Regulation	Air + Floor (x2) : internal probe is used for the regulation and Ext1, Ext2 for floor limits	
The Timer mode allows you to set a temperature and duration for a period of up to 5 hours.	In this case, the thermostats stops heating for 15 minutes.	_		Sup
This function can be used to override the program for short periods (reception)	The function remains active during those 15 minutes so the stop can last more time if the temperature continues decreasing.	In Installation	ON/OFF : regulation made by hysteresis +:-0.3°C PID : use a PID regulation	
You will have to adjust the temperature and the duration (Default value 22°C).	Return to normal mode:	Menu		
When you have validated your choice, the 🖾 logo appears on the left of the temperature with the remaining duration below.	The thermostat returns automatically to normal mode after the stop period.	-> Regulation		
4.3 Manual mode *	The function can be overridden: pressing the screen during the stop heating phase, will display a specific menu asking the user to stop or continue the stop phase.	-> Regulation		Ger
		Type In	in Air + Floor / Air (Ext) + Floor / Air + 2Floors regulations :	_
Manual mode, the set temperature will be followed all the time.	Special cases: - This function doesn't work if Thermostat is in Floor regulation	Installation	High : if floor temperature is above the High limit, thermostat stops	
4.4 OFF mode	- This function doesn't work if Thermostat is in OFF / Antifreeze Mode	Menu -> Regulation	heating Low : if floor temperature is below the Low limit, thermostat starts	N
Use this mode if you need to switch off your installation.	- If temperature is less than 10°C, thermostat will regulates at 10°C during the stop phase	J J	heating	Out
Be Careful: In this mode your installation can freeze.		-> Floor Limit In	In new installations the heating must be progressive, there are two	N
4.5 Antifreeze mode	5.4 Information	Installation Menu	first heating programs available, depending on the finished floor covering.	
	On the right bottom corner, a button is displayed. This button is a shortcut depending	-> Regulation	covering.	Prog
The antifreeze mode is used to protect your installation against frost. The default value is 7°C but can be adjusted between 2°C and 15°C	of the current state of the thermostat:	-> First		
	- If a warning logo is displayed: press on the icon to access the information screen. The information screen will provide more information on the current fault.	Heating		Ger
4.6 Holiday mode	 If a "i" is displayed: you can access the current set point and change it If a "step" icon is displayed, it means that you are in Programmable mode and you 	In Installation	Function that can be activated / deactivated : In program mode, the positive steps will be anticipated according	
You will have to select a mode which will be followed during the vacation time. You have 4 possibilities:	can view the current program directly. - If a "padlock" logo, it means that the screen is locked, pressing the icon will take you	Menu -> Regulation	to the current temperature and the next set point.	
- OFF Mode - Antifreeze Mode	to the unlock screen.	-> SmartStart		For
- Reduced Mode				is pr
- Sunday mode 裔 : the installation follows Sunday's current program				proc The
Then, select a return date and time				defe
The logo and date of return are displayed on the main screen				
				Date
If you want to cancel the holiday function before the return date, you can simply change operating mode.			国家深州国	
			TO THE REAL PROPERTY.	
			(30)97.60	Star

video

7. Technical caracteristics				
asured temperature precision	0.1°C			
vironmental: erating temperature: ipping and storage temperature:	0°C - 40°C -10°C to +50°C			
t ting temperature range mfort, Reduced liday (Antifreeze)	5°C to 35°C by 0,5°C step 7°C (adjustable)			
gulation characteristics	PID(10min cycle) or Hysteresis of 0.5°C			
ectrical Protection	Class II - IP21			
ximum load	Relay 16Amps 250Vac			
luded External sensors	10K ohms at 25°C			
tional External sensors	10K,12K or 15K ohms at 25°C			
ftware version	Displayed in the user menu.			
rms and homologation: ur thermostat has been designed in nformity with the following standards other normative documents:	EN 60730-1 : 2003 EN 61000-6-1 : 2002 EN 61000-6-3 : 2004 EN 61000-4-2 : 2001 EN 60730-2-9 Low voltage 2006/95/CE EMC 2004/108/CE			
asured temperature precision	0.1°C			
ttery Time	24 hours minimum (battery fully charged)			

8. Troubleshooting and solution

	My thermostat doesn't start			
pply Problem	 Check if the product is correctly wired Press the Reset button through the small hole under the product on the bottom right corner 			
Warning logo is displayed				
neral Problems	Press the warning logo on the bottom right corner. More information on the fault is displayed i.e. the sensor or the fault type (error, floor limit,) If error refers to the sensor : - Check sensor connections, - Check Regulation type (Air / Floor / Air+Floor)			
Ny thermostat seems to work correctly but the heating doesn't work correctly				
tput	- Check the connections. - Contact your installer.			
My thermostat seems to work correctly but the temperature in the room was				
never in accordance with the program.				
ogram	 Check the Clock. The temperature steps are too high? The step in the program is too short? Contact your installer, to check & adjust the regulation parameters with your heating system. 			
neral	 Check calibration sensor Check external sensor type (10k, 12k, 15k) 			

9. WARRANTY

or normal use, a 2-year warranty from the date of purchase from an authorized seller provided for flaws in the material or which occurred during the manufacturing of this oduct.

ie warranty doesn't apply to products which have been damaged by improper use, ifects caused by transport.

ate of sale:

amp and signature

FENIX Trading s.r.o. * Slezská 2, 790 01 Jeseník * tel. +420 584 495 111 * fenix@fenixgroup.cz * www.fenixgroup.cz

