



FLEXIHEAT UK LTD

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T-box Zone

Short user manual

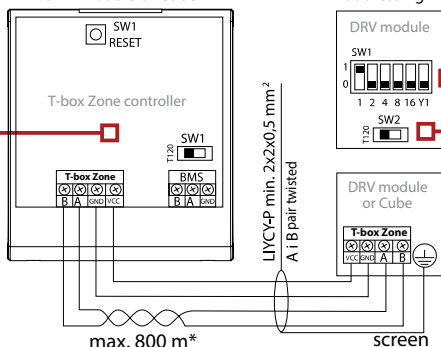
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TECHNICAL DATA

Name	Description
Power supply	24 VDC
Way of control	touch screen
Temperature adjustment range	+5 ÷ +45°C
Operating temperature range	0 ÷ +60°C
Temperature sensor	built-in
Protection degree	IP20
Installation	on the wall
Casing	ABS plastic, RAL 7024
Max. number of connected units	31/31
Dimensions (HxWxD)	130 x 115 x 35 mm

T-box Zone controller connection to DRV module or Cube

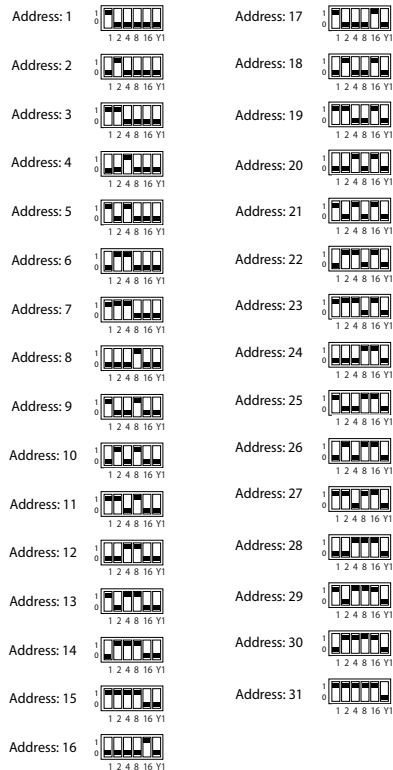


* Applies to all devices connected to T-box Zone controller in line

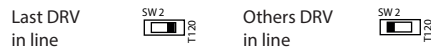
** In case of Cube devices addressing is being done by service during first startup

In the case, when T-box Zone in BMS network is the last device, SW1 switch should be set in T120 position.

DRV - SW1 ADDRESS SETTING



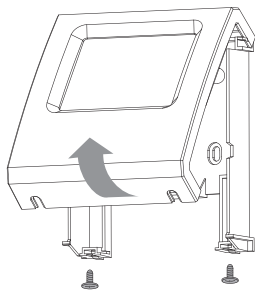
DRV - SW2 ADDRESS SETTING



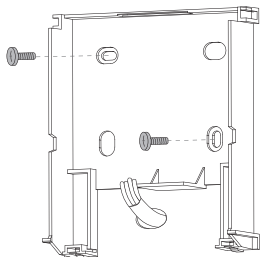
T-box Zone controller has a built-in sensor for measuring air temperature in the room. To ensure proper measurements, the controller should be installed at a height of approx. 1.5 m above the ground in a place with good air circulation. Do not place it near heat sources, lighting, air inlets, windows and door openings, etc.

If temperature sensor was chosen in a T-box Zone menu as „installed in unit“, T-box Zone controller can be mounted out of area i.e. technical room.

1



2



NAVIGATION

← save changes and return to previous screen

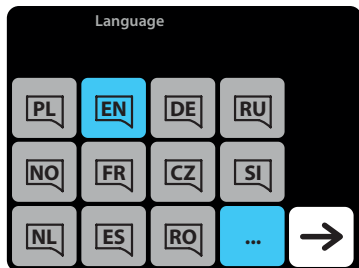
− + change parameter value

→ menu navigation

^ v change of device type

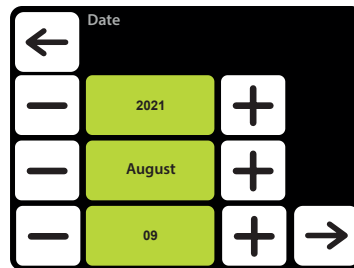
< > change zones

FIRST RUN

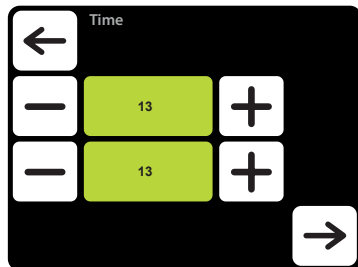


Selection of language

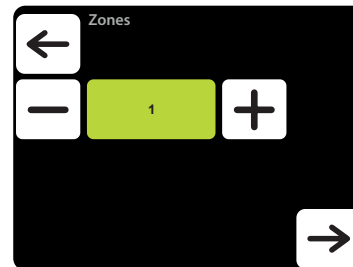
 active language



Setting of date



Setting of time



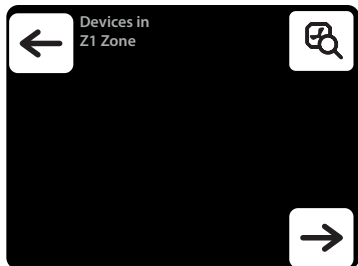
Setting the number of zones.
Up to 31 zones.

POLSKI

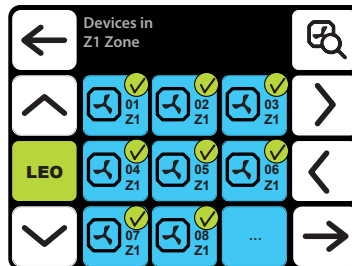
ENGLISH

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NEDERLANDS



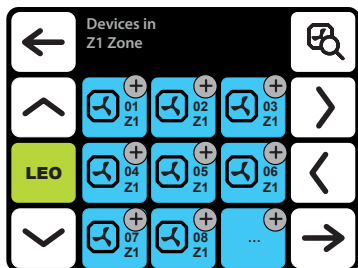
 Devices in Z1 Zone



- | | |
|--|--|
| LEO fan heater | ROBUR KM gas heater with mixing chamber |
| ROBUR gas heater | DUO air curtain-fan heater combo unit |
| LEO EL electric heater | ELIS air curtain |
| LEO COOL fan cooler-heaters | Slim air curtain |
| LEO D destratificator | OXeN ventilation unit |
| KM fan heater with mixing chamber | Cube rooftop unit |

Verify if all units have been found. If not, check:

- correct connection of communication signal A-A, B-B,
- power supply of the unit,
- correct setting of addresses, each unit must have different address, (in case of Cube devices addressing is being done by service during first startup),
- if in the last unit dip-switch SW2 is set in T120 position. (in case of Cube devices dipswitch setting is being done by service during first startup)



Navigation between types of devices.



Navigation between zones.

By default, all devices are assigned to zone 1. In order to assign devices to another zone please select next zone.



Press to assign the device to a zone.



Setting of desired temperature.

MAIN SCREEN



Change of zones



Long press - turn on/off of the controller

Short press - turn on/off of the zone



Long press - main menu

Short press - zone menu



Short press - zones menu



Setting of desired temperature



Calendar active



Settings lock active



BMS mode active

17,5°C

Set temperature

20,0°C

Measured temperature



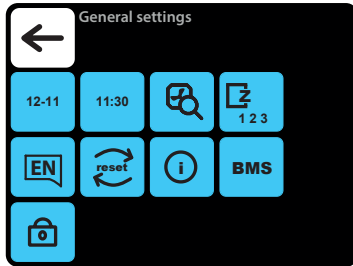
Alarms












Zone Z1

MAIN MENU

 long
press



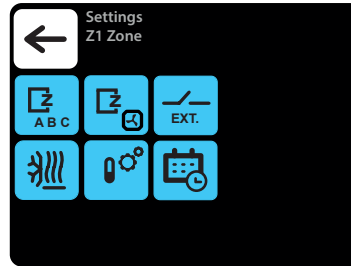
Enter to the menu after entering the password: 2014





- | | |
|--|--|
|  Date setting |  Restore factory settings |
|  Time setting |  Hardware version |
|  Search for devices |  Controller lock |
|  Number of zones |  BMS settings |
|  Language selection | |

EN

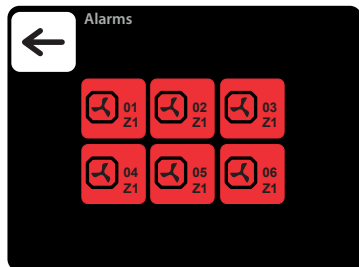
ZONE MENU

 short
press



- | | |
|--|---|
|  Zones - name changes |  Antifreeze the room in a given zone |
|  Zones - device selection |  Selection of leading sensor |
|  Zone calendar |  External input settings |

ALARMS



05 warnings

02 alarms

LIST OF ALARMS



Error code	Name	Description	Error code	Name	Description
1	Connection error	no communication between DRV and T-box, check connection and DRV power supply	7	Temperature sensor T3	check the temperature sensor T3
2	Communication error	communication error between DRV and T-box, check connection and software compatibility	8	Temperature sensor T4	check the temperature sensor T4
3	Antifreeze	active antifreeze of the room	9	Temperature sensor T5	check the temperature sensor T5
4	DRV group error	different type of device with the same address is connected, than was connected during the search; check binary address set in DRV and use search button again	10	Roof fan fuse	check the fuse of the roof fan on the DRV board
5	Temperature sensor T1	check the temperature sensor T1	11	Fan EC fuse	check EC fan fuse on DRV board
6	Temperature sensor T2	check the temperature sensor T2	12	Fan 3V fuse	check the LEO heater fan fuse on DRV board
			13	Roof fan TK	roof fan thermal protection alarm
			14	Fan EC not connected	check the connection of the EC fan

Error code	Name	Description	Error code	Name	Description
15	Antifreeze heat recover exchanger ON	antifreeze mode of heat recovery exchanger is on	25	Rooftop maintenance alarm	maintenance works necessary
16	Antifreeze water exchanger ON	water exchanger antifreeze mode is activated	26	Rooftop warning alarm	alarm with device operation support
17	Heater TK	TK protection of the electric heater was activated; the heaters have been turned off, the fan is running; the alarm resets automatically when the heaters cool down	27	Rooftop fault alarm	alarm that prevents further operation of the device
18	Filter work time	check filters contamination level	28	Rooftop danger alarm	alarm that immediately disconnects all device functions
19	Filter pressure	dirty filter of KM, change the filter, if pressure switch is not applied make a bridge (jumper) between PRDN IN and GND	90	Time error	set T-box clock
20	Forcing damper ON	forcing damper settings depending on the outside temperature	91	Internal temperature sensor error	damaged internal temperature sensor in the T-box controller
21	DUO heater not connected	no communication between DRV of fan heater part of ELiS DUO, check connection between DRV of air curtain part and DRV of fan heater part	92	External input: level 1	external input signal, 1 level
22	Robur alarm	internal protection of the gas heater; to reset the alarm, hold down the alarm icon	93	External input: level 2	external input signal, 2 level
23	STB alarm	thermal protection of the gas heater; to reset the alarm, hold down the alarm icon	94	Lead temperature sensor	check the leading temperature sensor
24	STB short circuit	STB sensor error; check the STB temperature sensor			

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