



Installation and operating instruction



Read carefully before installation, commissioning and operation

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EG-Conformity

By affixing the CE mark to the unit the manufacturer declares that °CALEON conforms to the following relevant safety regulations:

- EU low voltage directive 2014/35/EU
- EU electromagnetic compatibility directive 2014/30/EU

conforms. Conformity has been verified and the corresponding documentation and the EU declaration of conformity are kept on file by the manufacturer.

General instructions

Please read carefully!

These installation and operating instructions contain basic instructions and important information regarding safety, installation, commissioning, maintenance and the optimal use of the unit. Therefore these instructions must be read and understood completely by the installation technician/specialist and by the system user before installation, commissioning and operation of the unit.

This unit is an automatic, electrical °CALEON Roomthermostat. Install the device only in dry rooms and under environmental conditions as described under "Technical Data".

In addition, observe the applicable accident prevention regulations, the regulations of the Association of Electrical Engineering, the local power supply utility, the applicable DIN-EN standards and the installation and operating instructions for the additional system components. Installation, electrical connection, commissioning and maintenance of the unit may only be carried out by specialists who possess the appropriate training. Users: Make sure that the specialist gives you detailed information on the function and operation of the unit. Always keep these instructions in the vicinity of the unit.

The manufacturer does not take over any liability for damage caused through improper usage or non-compliance of this manual!

Changes to the Unit

- Changes, additions to or conversion of the unit are not permitted without written permission from the manufacturer.
- It is likewise forbidden to install additional components that have not been tested together with the unit.
- If it becomes clear that safe operation of the unit is no longer possible, for example because of damage to the housing, turn the Unit off immediately.
- Any parts of the unit or accessories that are not in perfect condition must be exchanged immediately.
- Use only original spare parts and accessories from the manufacturer.
- Markings made on the unit at the factory must not be altered, removed or made illegible.
- Only the settings described in these instructions may be set using the Unit.

Changes to the unit can compromise the safety and function of the unit or the entire system.

Warranty and Liability

The Unit has been manufactured and tested with regard to high quality and safety requirements. The warranty and liability shall not include, however, any injury to persons or material damage that is attributable to one or more of the following causes:

- Failure to observe these installation and operating instructions.
- Improper installation, commissioning, maintenance and operation.
- Improperly executed repairs.
- Unauthorised structural changes to the unit.
- Use of the device for other than its intended purpose.
- Operation above or below the limit values listed in the ,Specifi cations' section.
- Force majeure.

Disposal and Pollutants

The unit conforms to the European RoHS 2011/65/EU for 2011/65/EU the restriction of the use of certain hazardous substances in electrical and electronic equipment.



Under no circumstances may the device be disposed of with the normal household waste. Dispose of the unit only at appropriate collection points or ship it back to the seller or manufacturer.

DESCRIPTION °CALEON

Specifications

Menu E Aus Normal Eco Komfort 22.5 °C		Housing	2-part, ABS pla 75 mm x 95 mn Glass front	stic n x 19 mm
		Display	Capacitive touch panel Color display with 240x320 dots 2.8 inches (7 cm) diagonal	
	95 mm	$\begin{bmatrix} 1 & 2 \\ 2 & 3 \end{bmatrix}$ Operation	Intuitive user guidance	
		Language	Deutsch English Español	Italiano Français Português
75 mm	9 mm			
Electrical specifications:				
Power supply		12 - 24 VDC +/- 10%		
power consumption		Max. 2,5 W		
Protection Class		IP20		
Protection class / overvoltage category				
Max. cable length				
0-10V/PWM		<3m, if the cable length is >=3m it is necessary to use a shielded twisted pai bus cable and connect the shield on one side to the protective conductor.		

1-Wire Bus	Optional, without function			
Permissible Ambient Conditions				
during operation	0 °C - 50 °C, no moisture condensation permitted			
for transport/storage	0 °C - 60 °C, no moisture condensation permitted			
Measuring range	Outside the measu	Outside the measuring ranges there are larger deviations		
Internal temperature sensor	0°C-60°C	Accuracy +/-1°C		
		Resolution 0,1 °C		
Internal sensor for rel. humidity	0 % - 100 %	Accuracy +/- 6 °C		
		Resolution 0,1%		
1-Wire temperature sensors	Optional, without fu	Optional, without function		
Other Specifications				
Installation methods	Wall installation, with/without wall socket			
Real Time Clock	RTC with 24 hour power reserve			

Scope of supply

- °CALEON Roomthermostat
- 2 screws 3,5 x 35 mm and 2 plugs 6 mm for wall installation.
- °CALEON installation guide

INSTALLATION

°CALEON Clima Installation











Pay attention to suitable environmental conditions. Direct sunlight, sources of heat and cold, e.g. radiators and windows must be avoided.

When mounting °CALEON's base to the wall the connecting cables must be kept as short as possible. For direct wall mounting a maximum length of 40 mm is recommend. Long wire loops inside the °CALEON's housing may cause problems.

When mounting °CALEON's base to a plastic wall socket the connecting cables must be kept as short as possible (strip cables not more than 55 mm). Also make sure that wire loops are led back to the plastic wall socket, since long wire loops inside the °CALEON's housing may cause problems.

Strip the last 8 - 9 mm of the wires. Isolate shielding and connect it at a suitable location (controller or CAN-box) to the protective conductor.



Any contact between protective conductor and circuit board can cause serious damage.

Mounting on plastic wall socket

Fix the base with the screws (3.0×16) to the mounting box.

Direct wall mounting

Hold the lower part of the housing up to the selected position and mark the three mounting holes. Make sure that the wall surface is as even as possible so that the housing does not become distorted when screwed on. Using a drill and drill holes at the points marked on the wall and push in the plugs. Insert screws and screw it in slightly. Align the base and tighten the screws.







Open the terminals with the accompanying operating tool and make the electrical connection as described.



The first and last unit in the CAN-network in series must be fitted with terminating resistance.



The connection of the opposite side (controller) can be found in the corresponding terminal diagram in the controller manual.

Refit the base and fasten with screw. Switch on mains voltage and place $^\circ\mbox{CALEON}$ in operation.



The commissioning can be accessed in the °CALEON menu under Expert at any time.





*Only CAN in power supply from 4 cores of the regulator.

The order and the number of devices (max. 50) is arbitrary.

OPERATION

Room overview

Displays the room temperature, humidity and external temperature once the start screen was activated.



Operating Mode



Menu



operation mode.

Overview > Operating Mode > Menu > **Timer**

Setting of individual heating and cooling times for the selected room.

Separate times are set for the heating and cooling modes. To do this, first switch to heating mode and define the corresponding times for this operating mode under Main menu > Timer. Then change to the cooling mode and define the corresponding times for this operating mode under Main menu > Timer.







The menu structure described here is based on the status at the time of production and may vary due to subsequent software changes.

Settings

Overview > Operating Mode > Menu > Expert > **Settings**





Overview > Operating mode > Menu > Expert > Settings > Rooms



Overview > Operating mode > Menu > Expert > Settings > **Room 2**





Overview > Operating mode > Menu > Expert > Settings > **Functions**

Activate and set additional functions.



Overview > Operating mode > Menu > Expert > Settings > Functions > **Thermostat 1**

Switches the defined output to the set room / rooms depending on time and temperature.



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The dehumidifier function switches the defined output depending on the set humidity in the set room(s).



Overview > Operating mode > Menu > Expert > Settings > Functions > Season Switch

The seasonal switch changes the operating mode of the heat pump (compressor) between "heating" and "cooling". Therefore the heat pump (compressor) must be compatible with reversible operation.



The function Timer 1-2 switches the defined output depending on the set times.



Overview > Operating mode > Menu > Expert > Settings > **WiFI**



Information about the WiFi status and about the device address (which is required for the connection with the °CALEON App).

Manage Access

Allows device access via the °CALEON App to up to 5 users by entering their e-mail addresses.

WiFi Passwort

Entry of the WiFi password

Activate DHCP

If auto-configuration is enabled, the device searches the network for a DHCP server that assigns IP, subnet mask, gateway IP, and DNS server IP. If you disable the auto configuration (DCHP), you must enter the necessary network settings manually!

Refer to the following sections:

IP Address

Entry of the °CALEON IP address.

Network Mask Entry of the network mask.

Gateway Entry of the gateway address.

DNS/DNS 2 Entry of the DNS address.



°CALEON WiFi and App Configuration



Notes

Final declaration

Although these instructions have been created with the greatest possible care, the possibility of incorrect or incomplete information cannot be excluded. Subject as a basic principle to errors and technical changes.

Date and time of installation:

Name of installation company:

Space for notes:

Your specialist dealer:

Manufacturer:

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Version: 07.11.2019