

# Roth Softline control system

## Wireless control system for heating and cooling

Advanced wireless control system for underfloor heating, cooling and radiators with optional internet connectivity and the use of Roth Softline app.

The Roth Softline control system is used for individual control and regulation of the room temperature in buildings with underfloor heating/cooling systems where an advanced system is needed. The control system also offers the possibility to control radiators using the wireless radiator actuators.

The system consists of two controllers: A Roth Softline Controller, Master and a Roth Softline Controller, extension, each with 8 channels and wireless connection to room thermostats or sensors in the individual rooms. It is possible to set up a system consisting of one Roth Softline Controller, master and up to four Roth Softline Controller, extensions wirelessly connected to each other. The system offers a wide range of accessories such as a Roth Softline WIFI Internet module, a Roth Softline Valve module for control of a mixing unit, a Roth Softline Wireless Window contact and a Roth Softline Wireless Radiator actuator.

The Roth Softline Controllers have a display panel which is used when pairing the thermostats. At the same time, it provides a good overview of installed thermostats/sensors with associated temperatures, and the signal strength can be easily read for each thermostat/sensor, and correct positioning is easily done. The thermostats are available in 2 variants, both with display and touch buttons.

Also available:

- > 2 variants of Roth Softline temperature sensors. Both are controlled via the controller display or the app.
- > 2 Roth Softline Smart accessories which make the system even more applicable:
  - > Roth Softline Wireless Radiator valve actuator offers the possibility of controlling radiators. Up to 6 actuators can be connected to each zone.
  - > Roth Softline Wireless window contact ensures that the heat source will be set in ECO mode when the window is opened to reduce waste of energy. Up to 6 contacts can be connected to each zone.

### Roth Softline room thermostats

#### Roth Softline Standard room thermostat

The thermostat comes in white with an LCD display protected by a transparent polycarbonate plate. The power supply is 2 x AAA 1.5V batteries. The temperature is easily set with the two touch buttons (< / >) and the menu button (□) gives you access to more advanced settings.

This thermostat can also be connected with a wired sensor for controlling the floor temperature. The thermostat is also equipped with a humidity sensor to monitor the humidity in the room which is important when you run your installation in cooling mode.



#### Roth Softline Plus room thermostat

The thermostat comes in white with a large temporary backlit LCD display with, protected by a transparent polycarbonate plate. The power supply is 2 x AAA 1.5V batteries. The temperature is easily set with the two touch buttons (< / >) and the menu button (□) gives you access to more advanced settings. The “back” button is used for returning from menus.

This thermostat can also be connected with a wired sensor for controlling the floor temperature. The thermostat is also equipped with a humidity sensor to monitor the humidity in the room which is important when you run your installation in cooling mode.

### Room sensors

#### Roth Softline Room Sensor

The sensor comes in white without any buttons or display. The front is protected by a transparent polycarbonate plate. The power supply is 2 x AAA 1.5V batteries.

The sensor measures the actual temperature in the room, and temperature and settings can only be read/changed on the display of the controller or via the app

#### Roth Softline Room Sensor Mini

The sensor comes in white without any buttons or display. The front is glossy white. The power supply is 1 x 2032 button cell. The sensor measures the actual temperature in the room, and temperature and settings can only be read/changed on the display of the controller or via the app. This sensor can also be delivered with a humidity sensor.

# Roth Softline kontrolsystem

## Accessories

### Roth Softline Radiator actuator

The wireless radiator actuator comes in glossy white with an outside pairing button and LED indicator. The power supply is 2 x AAA 1.5V batteries.

The actuator ensures accurate and quiet operation of radiator heating control.

Connection to valve-nut with M30x1,5 screw thread. Adaptors for several other type of valves available (Danfoss RAN and RTDN adaptors in set).

### Roth Softline Wireless window contact

The wireless window contact comes in glossy white in a contemporary, compact, and discreet design. It has an inside pairing button and LED indicator. The power supply is 1 x 3,6V type ER14250 lithium battery.

The contact signals an open window/door to ensure a minimum of heat loss when connected to a zone.

### Roth Softline Controller, Master

The Roth Softline Controller, Master is available with 8 channels. The controller can be mounted directly on the wall, or by using a 35 mm DIN rail (not included). The controller has a potential-free relay for e.g. boiler control, an output for pump with 230V voltage, as well as in/outputs for more accessories such as heat sources, Roth Softline WiFi Internet module, Roth Softline Valve module and different Roth Softline wired sensors.

The following information can be read on the controller's display per channel:

- > Weekday and time
- > Current and desired temperature (room and floor)
- > Outdoor temperature (if sensor installed)
- > System mode (on/off, Normal, Holiday, Comfort, ECO, schedule)
- > Signal strength per thermostat/sensor
- > Battery level per thermostat/sensor
- > Connected Smart accessories per zone
- > Pump output status (on/off)
- > Status relay (on/off)
- > Connected accessories
- > Alarm in case of lost connection

The control panel provides access to basic settings for the system, and with a code also for the advanced settings.

### First start-up

When first starting up an underfloor heating system, all actuators should be fully opened to ensure proper operation. It is also important to get all air flushed out of the system.

### Pump motion

To extend the life of the pump and ensure that the pump does not get stuck, the system automatically performs pump exercise every 10 days for 5 minutes.

### Valve motion

Long life and securing of valves, and the function of the actuators are ensured by the automatic valve and actuator exercises which are performed every 10 days for 5 minutes.

## Sections of functionality

- > Up to 30 m indoor range
- > Up to 40 channels in combination with Roth Softline Controller, extension
- > Optional Roth Softline valve module to control supply temperature
- > Optional Roth Softline WIFI Internet module for internet connection
- > Frost protection in case of lost connection to thermostats
- > Locking the thermostat for public use
- > On/Off regulation
- > OPTIMUM Start, adaptive regulation
- > Can be used for underfloor heating/and cooling
- > Can be used for radiator installations
- > Control of pump, boiler or other heat sources
- > Intuitive operation of display thermostats

### Roth Softline Controller, Master 8 ch 230V

Supply voltage	HVAC no.7466397028 230V AC
Energy consumption	6 W
Number of outputs and voltage	18 (NC/NO), 230V AC
Max. sustained load	18 thermal actuators (0.3A) (2 channels of 3 actuators and 6 of 2 actuators)
Wireless channels	8 thermostat/sensors 6 radiator actuators (per zone) 6 window contacts (per zone) (EN60730)
Protection class I	
Transmission frequency	868 MHz
Range (up to)	30 m (in ordinary building)
Max. load pump relay	230V and 0.5 A
Max. load potential-free relay	1A
Power supply cable	85 cm
Ambient temperature	5 - 50°C
Ambient humidity	< 80% RH
Storage / transport temperature	-20 - +50°C
Degree of protection	IP20 (EN60529)
Fuse glass fuse	WT 6.3A (5 x 20mm)
Approvals	CE 2014/53/EU

### Roth Softline Controller, extension 8 ch 230V

Supply voltage	HVAC no. 7466397038 230V AC
Energy consumption	6 W
Number of outputs and voltage	22 (NC/NO), 230V AC
Max. sustained load	22 thermal actuators (0.3A) (3 channels of 4 actuators and 5 channels of 2 actuators)
Wireless channels	8 thermostat/sensors 6 radiator actuators (per zone) 6 window contacts (per zone) (EN60730)
Protection class I	
Transmission frequency	868 MHz

## Roth Softline kontrolsystem

Range (up to)	30 m (in ordinary building)
Max. load pump relay	230V and 0.5 A
Max. load potential-free relay	1A
Power supply cable	85 cm
Ambient temperature	5 - 50°C
Ambient humidity	< 80% RH
Storage / transport temperature	-20 - +50°C
Degree of protection	IP20 (EN60529)
Fuse glass fuse	WT 6.3A (5 x 20 mm)
Approvals	CE 2014/53/EU

**Roth Softline Standard Room thermostat** HVAC no. 7466397180

**Roth Softline Plus Room thermostat**

Supply voltage 2 pcs. AAA 1.5V  
 Battery life > 2 years (floor sensor)  
 > 4 years)

Power consumption standby ~ 50uA  
 Room temperature, setting range +5 - + 30°C  
 Comfort floor temperature, setting range +15 - + 30°C  
 Floor temperature, max. setting range +26 - + 35°C  
 External floor sensor NTC 10k B = 3435K

Accuracy (resolution) ± 0.5 K.  
 Time constant (time delay) Approx. 4 min.  
 Activation time (wake-up time) < 2 sec.

Max. forced update time for data from control box 10 sec.  
 Standby display without operation Max. 5 sec.  
 Standby by program. at user level 3.5 sec.  
 Transmission frequency 868 MHz  
 Range up to 30 m (ordinary building)

Ambient temperature 0 - 55°C  
 Ambient humidity Max. 80% RF  
 Degree of protection IP20 (EN60529)  
 Approvals CE 2014/53/EU

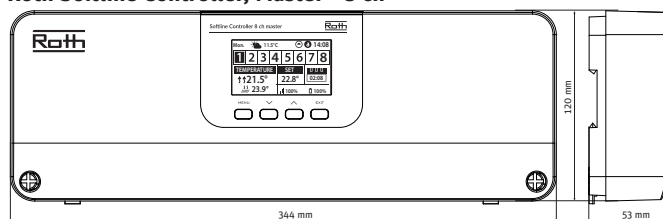
**Roth Softline Radiator actuator** HVAC no. Comming soon

**Roth Softline Wireless window sensor** HVAC no. Comming soon

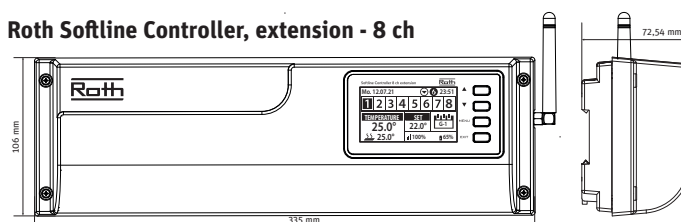
### Accessories

Roth Softline WIFI Internet module	HVAC no. 7466397000
Roth Actuator 230V 1 Watt NC	HVAC no. 7466275433
Roth Softline Antenna	HVAC no. 7466397305
Roth Softline Repeater	HVAC no. 7466397400
Roth cable sensor for thermostats	HVAC no. 7466397525

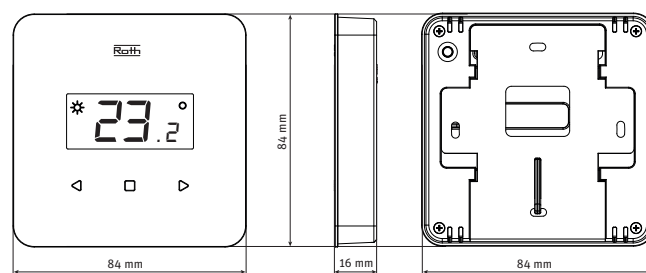
**Roth Softline Controller, Master - 8 ch**



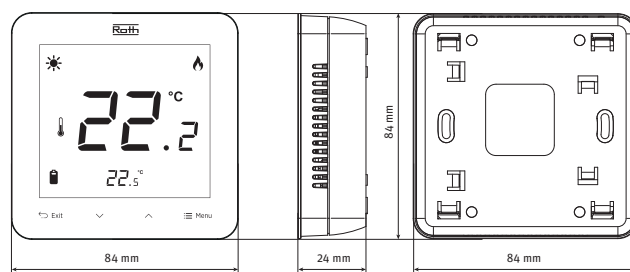
**Roth Softline Controller, extension - 8 ch**



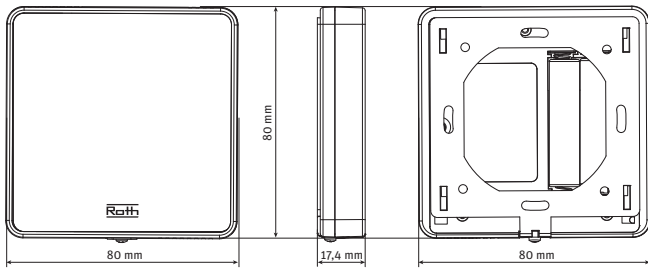
**Roth Softline Standard room thermostat**



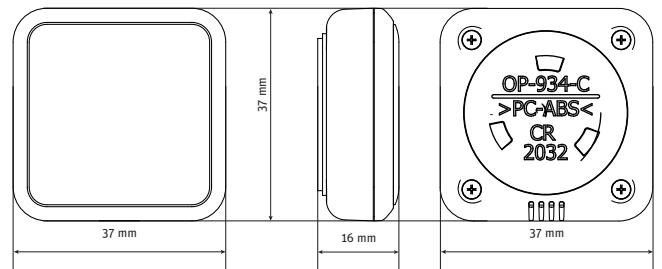
**Roth Softline Plus room thermostat**



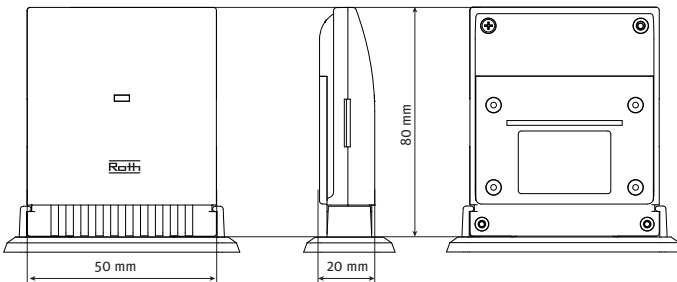
### Roth Softline Room Sensor



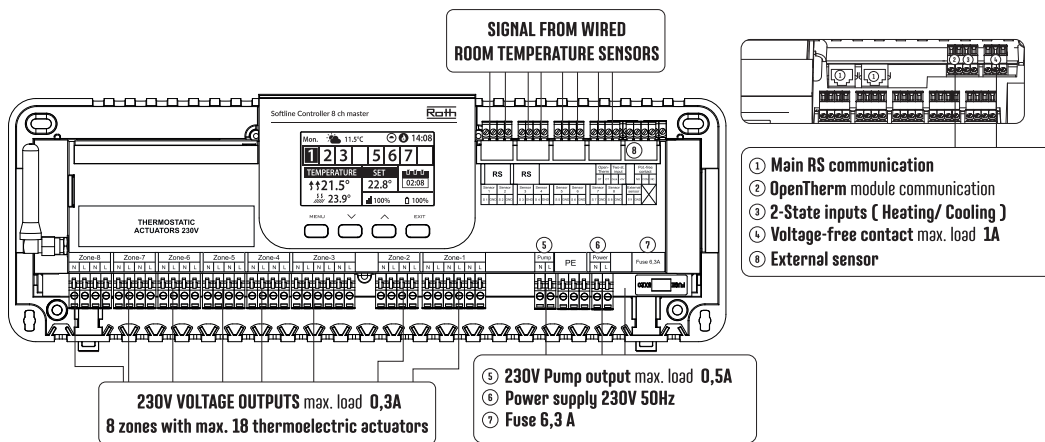
### Roth Softline Room Sensor Mini



### Roth Softline Outdoor Sensor



### Connections on Roth Softline Controller, master



### Connections on Roth Softline Controller, extension

