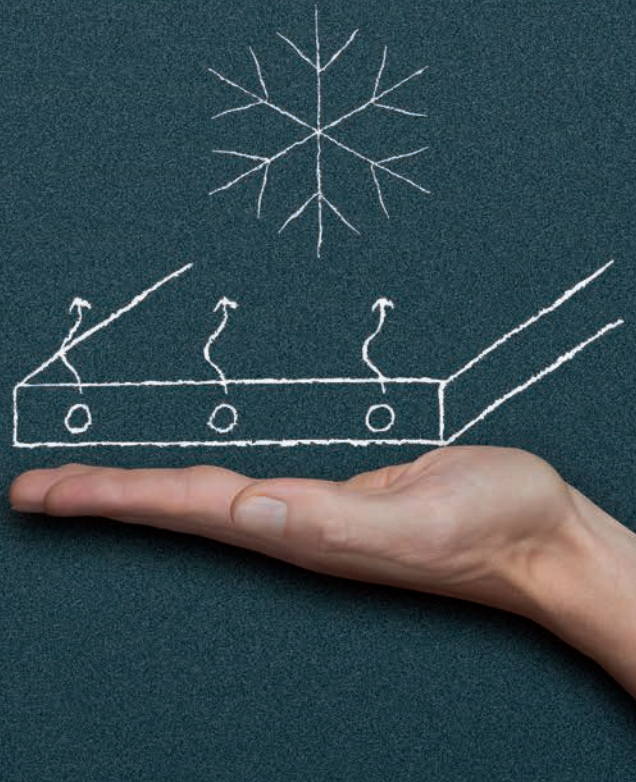


**Roth Touchline
Guidelines System Settings
for Cooling**



Contents

The Roth Touchline control system can be set in various ways to operate with an external cooling application. The system can be set either to control the switch from heating to cooling (and vice versa) via the floor or to operate with an external cooling application, e.g. a ventilation system, in which case it is important also to ensure that the heating system does not heat at the same time.

The following setting options are available:

- › The Touchline control system controls the cooling device via a 230V C/O output signal. The system is set simply from any room thermostat to operate in heating or cooling mode.
- › The Touchline control system is controlled by the cooling device via a 24V or 230V C/O output signal and set to operate in cooling mode.
- › The Touchline control system switches to stand-by (shuts down) on a signal from an external cooling system, e.g. a ventilation unit.
- › Connection and configuration are described in the following.

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Cooling function, where Touchline determines cooling start – C/O output 230V

Menu (P-51)

Change default setting from 0 to 2 on all control units in the system. At this setting, you can select heating or cooling mode from any room thermostat. Select the ice crystal or hot floor icon on the room thermostat (use menu button).

If several control units are connected as master and slaves, repeat setting in menu (P-51) manually for all remaining control units.

The cooling function is controlled via the C/O-Output 230V (07 & 08) circuit on the control unit.

The cooling device is powered up when cooling is required. See Touchline circuit diagram (07/08).

Cooling lock

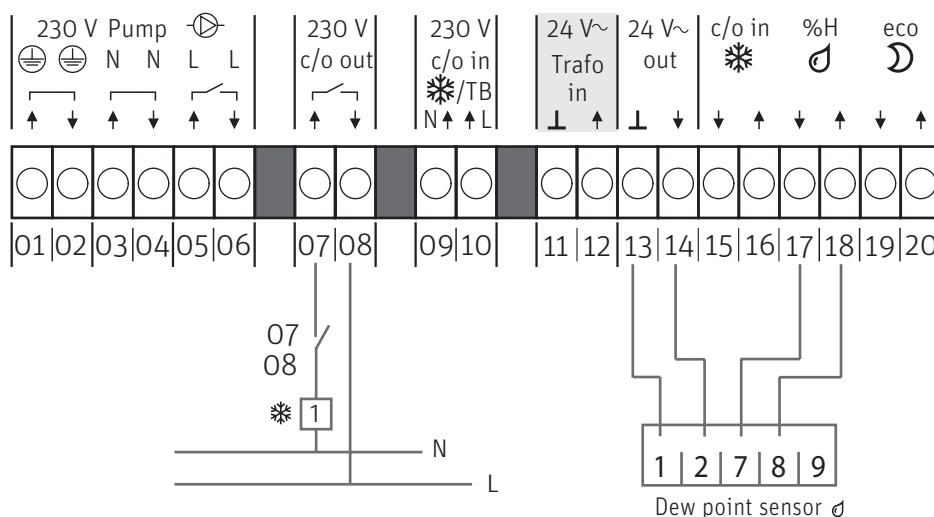
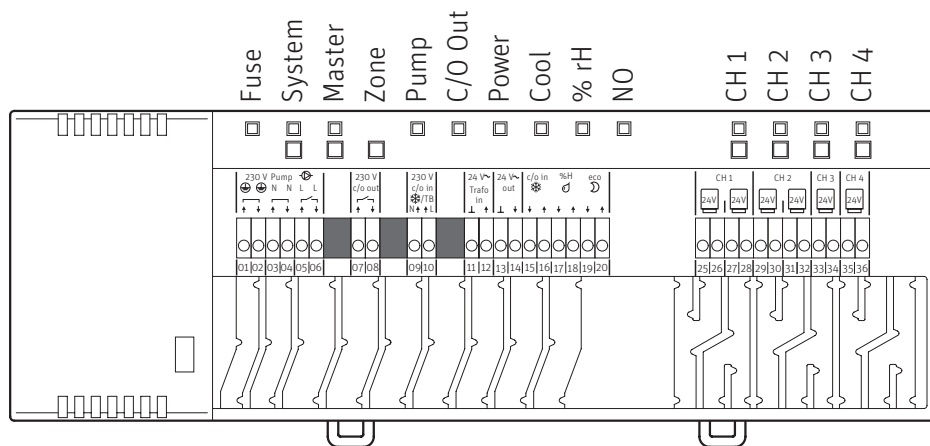
Rooms in which no cooling is required, e.g. a bathroom, can be protected by a cooling lock in menu (P-45).

Setting dead-zone shift menu (P-34)

The dead zone is used to adjust the temperature range between desired room temperature and cooling requirement.

Factory setting 2°C.

See settings in full Touchline manual, menu (P-34).



(1) Cooling device

Closed: Cooling ON

Open: Cooling OFF

Heating/cooling device determines if the Touchline system is to heat or cool – C/O signal 24V

Menu (P-62)

Change default setting from 0 to 2.
When the 24V input is activated, the wireless control unit switches to cooling,

If several control units are connected as master and slaves, the master will automatically transmit the signal to the slaves within 3 minutes.

Connect cooling function via 24V (14) ~ and 10. Connect jumper between 24V (13) and 09 on the control unit.

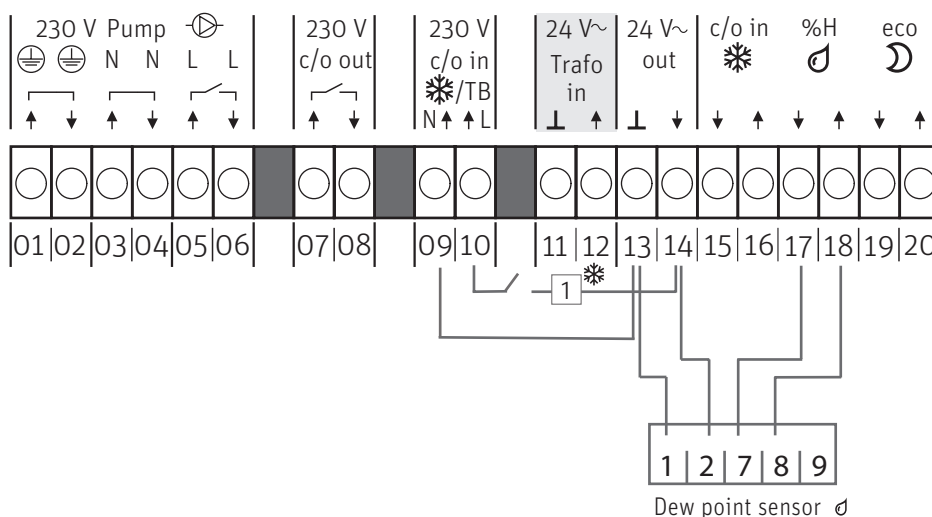
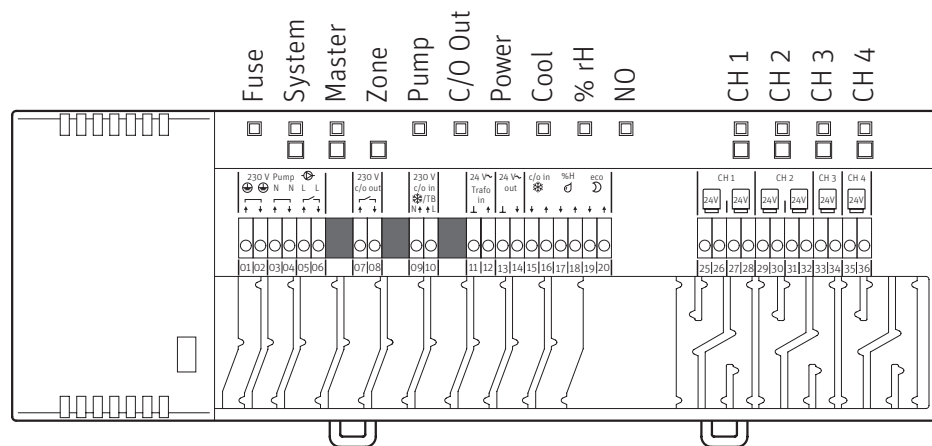
See diagram of Touchline terminal 14/10 with 24V connection.

Cooling lock

Rooms in which no cooling is required, e.g. a bathroom, can be protected by a cooling lock in menu (P-45).

Setting dead-zone shift menu (P-34)

The dead zone is used to adjust the temperature range between desired room temperature and cooling requirement. Factory setting 2°C.
See settings in full Touchline manual, menu (P-34).



(1) Heat pump/cooling device

Closed: Cooling ON
Open: Cooling OFF

Heating/cooling device determines if the Touchline system is to heat or cool. C/O signal 230V

Menu (P-62)

Change default setting from 0 to 2.
When the 230V input is activated, the wireless control unit switches to cooling,

If several control units are connected as master and slaves, the master will automatically transmit the signal to the slaves within 3 minutes.

Connect cooling function to terminal 09 (N) /10 (L).

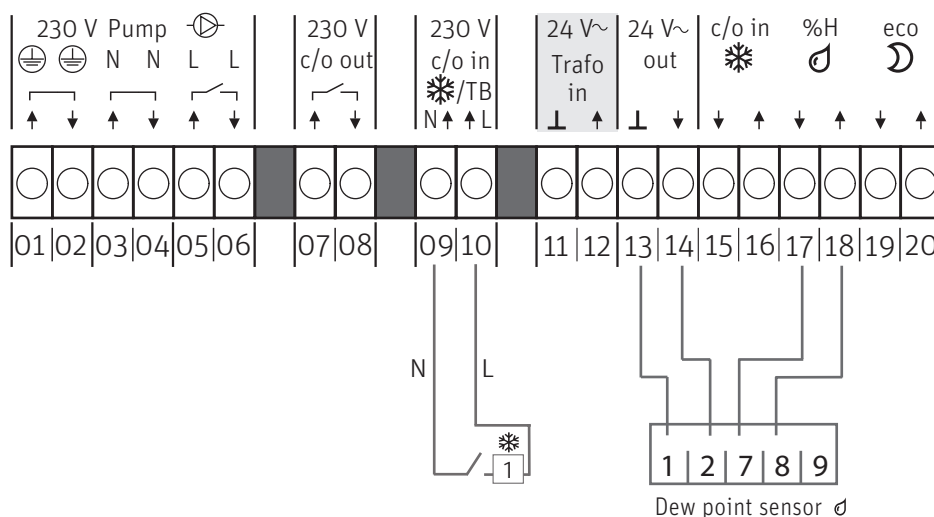
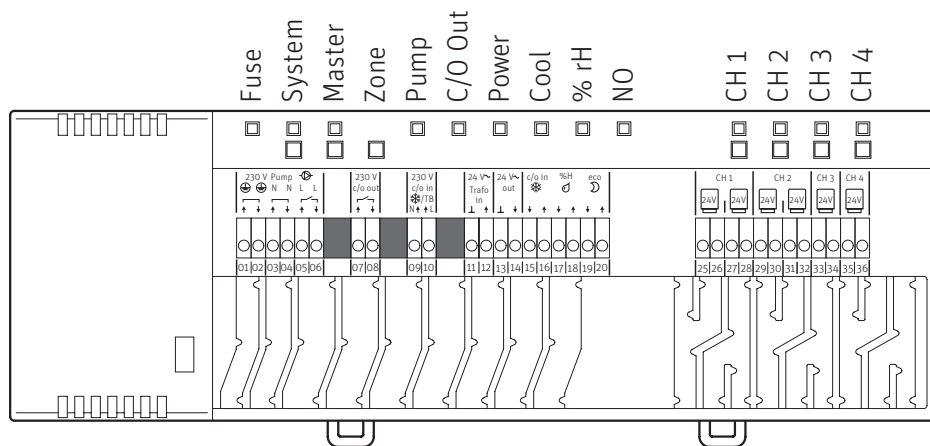
See Touchline terminal 09/10 diagram.

Cooling lock

Rooms in which no cooling is required, e.g. a bathroom, can be protected by a cooling lock in menu (P-45).

Setting dead-zone shift menu (P-34)

The dead zone is used to adjust the temperature range between desired room temperature and cooling requirement. Factory setting 2°C.
See settings in full Touchline manual, menu (P-34).



(1) Heat pump/cooling device

Closed: Cooling ON
Open: Cooling OFF

Free-standing cooling device, air/heat stop signal

When this input is activated, the pump shuts down and all thermal motors are switched to OFF

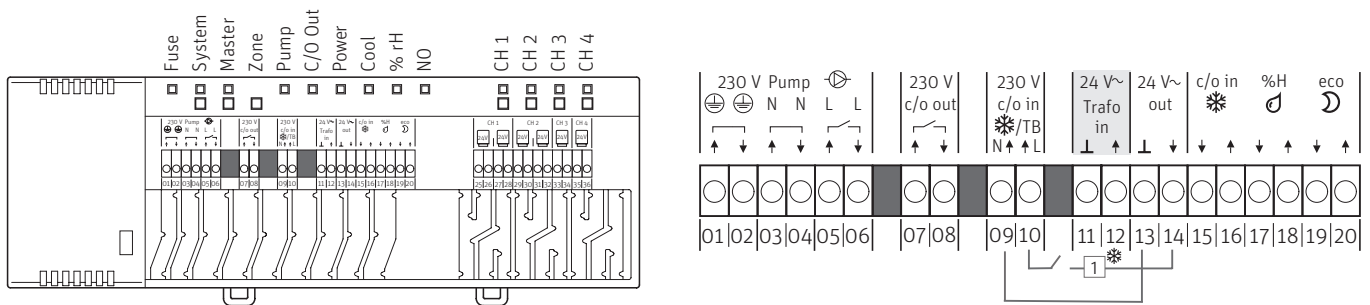
Menu (P62)

Parameter setting 0

When this input is activated, the red LED on the wireless control unit is lit and the warning icon shown in the wireless thermostat display.

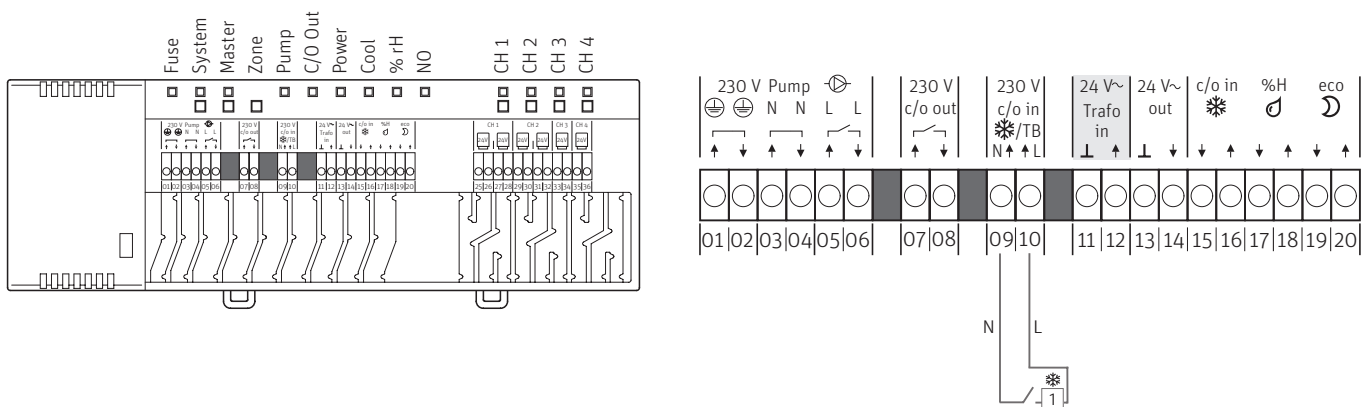
24V:

Connect cooling function via 24V (14) ~ and 10. Connect jumper between 24V (13) and 09 on the control unit.



230V:

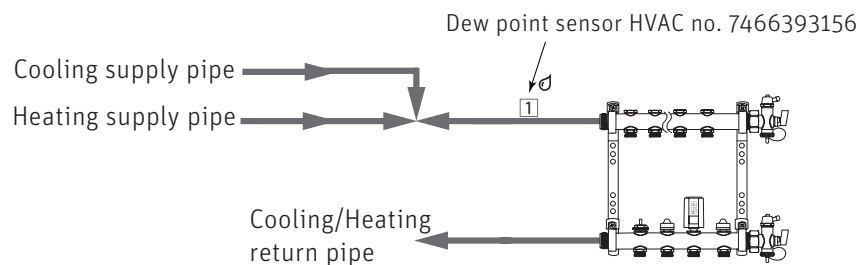
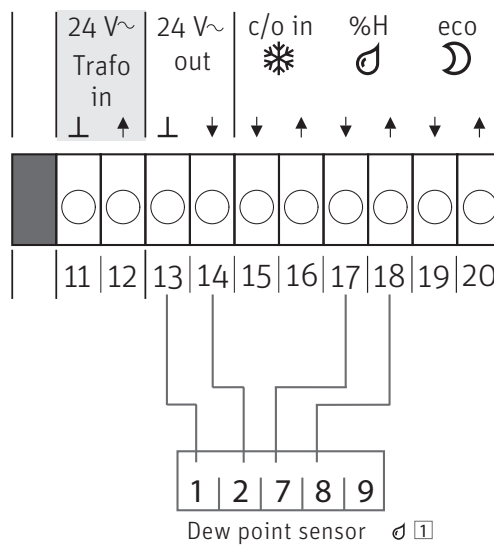
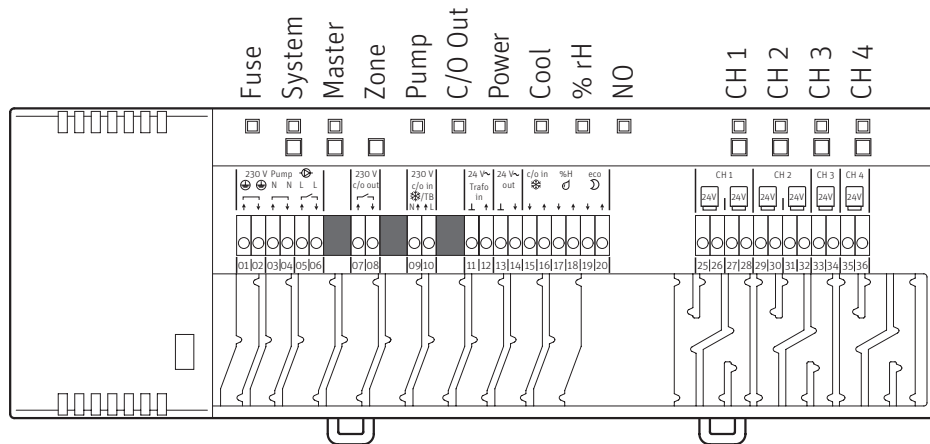
Connect cooling functions to C/O in 230V - 09 and 10 on the control unit. See Touchline terminal 09 (N) / 10 (L) diagram.



Dew point sensor

A Touchline system with cooling function must always have a dew point sensor.
The dew point sensor functions as a safety switch in the event of high relative humidity in flow.

After shut-down, the system will restart the cooling function when relative humidity returns to an acceptable level.



(1) Roth dew point sensor

Dew point sensor input terminals 17 and 18.

- Contact closed: Maximum permitted humidity level exceeded, cooling OFF (red LED lit)
- Contact open: Maximum permitted humidity level not exceeded, cooling on demand ON