



sys tec therm RAYSTAT-V5 Control Unit Installation Guide

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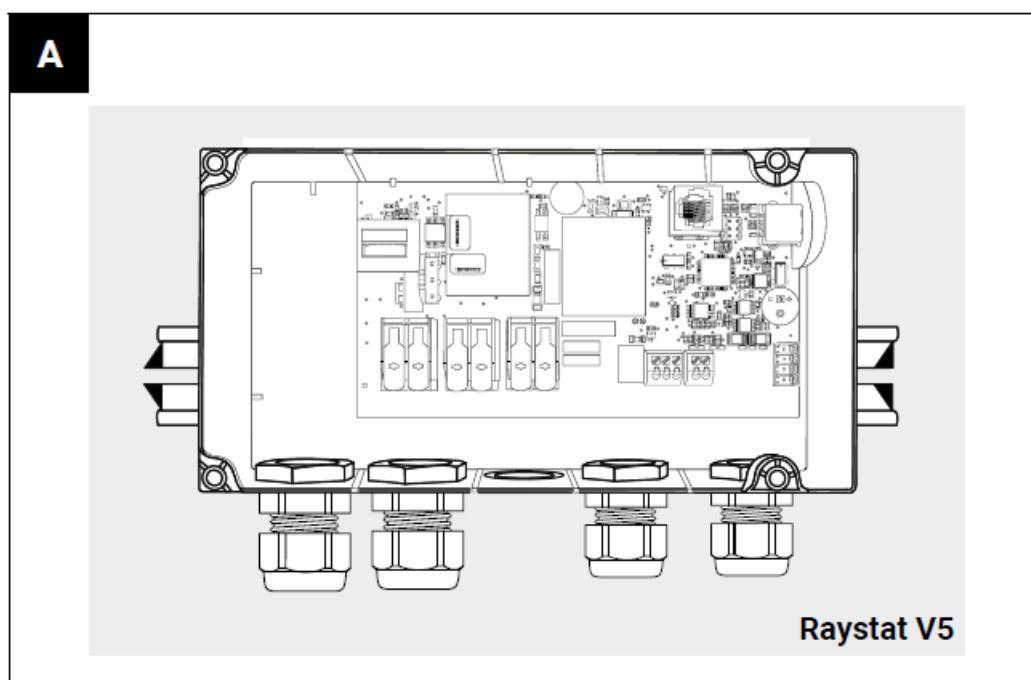
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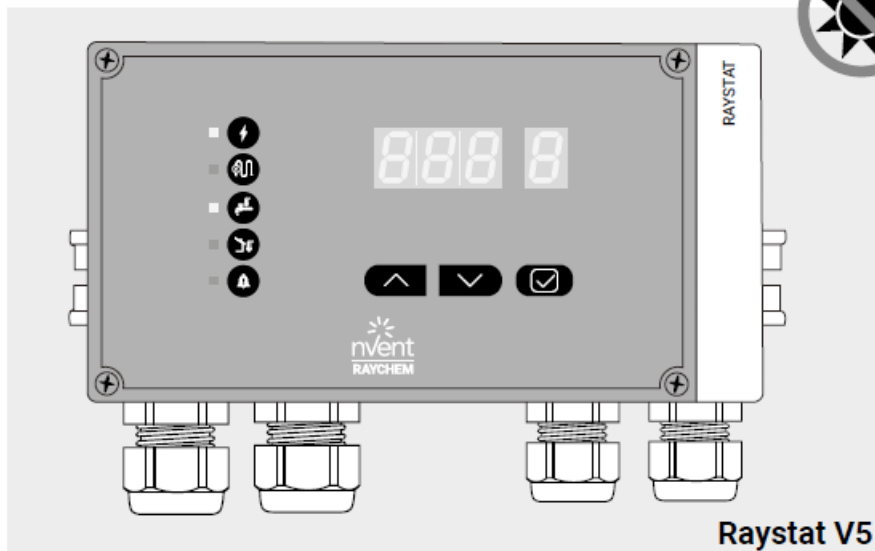
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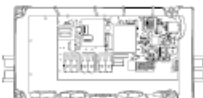
sys tec therm RAYSTAT-V5 Control Unit



PRODUCT OVERVIEW

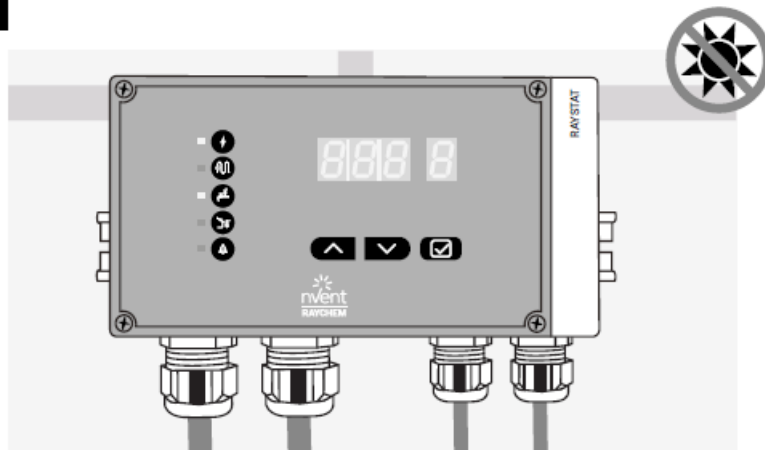


B**C**

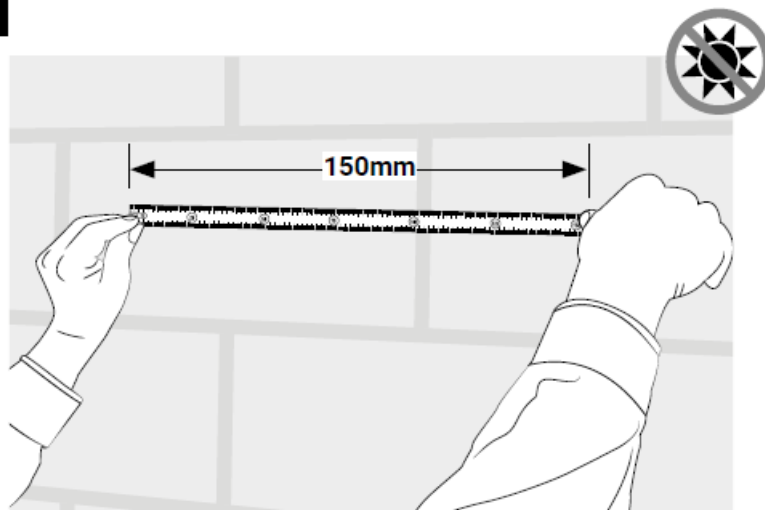
			
	 1x	 1x	 1x
	 2x M25; 2x M20	 1x	 1x
	 1x	 2x	 2x
	 PCN: 1244-020365	 PCN: 1244-015847	

INSTALLATION INSTRUCTIONS

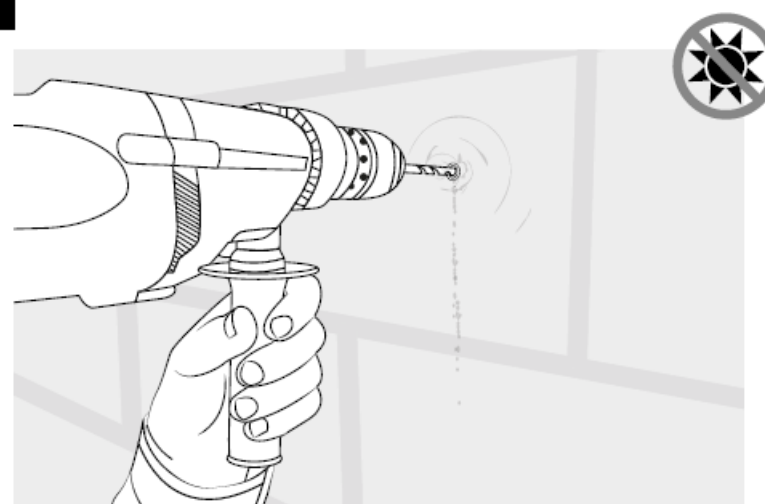
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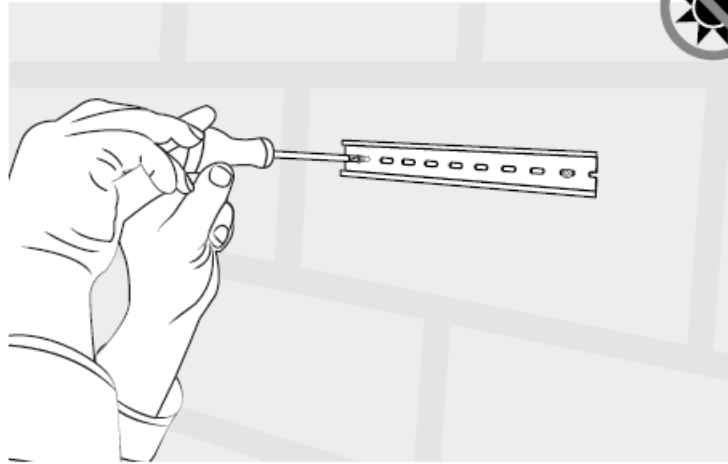
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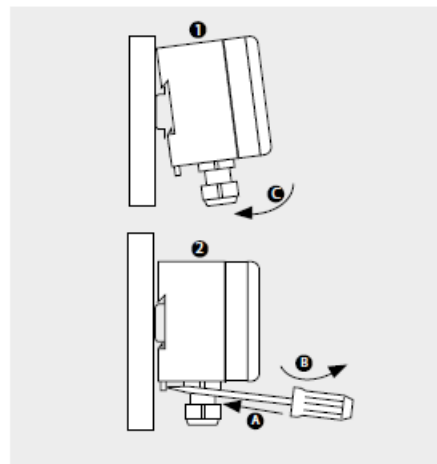
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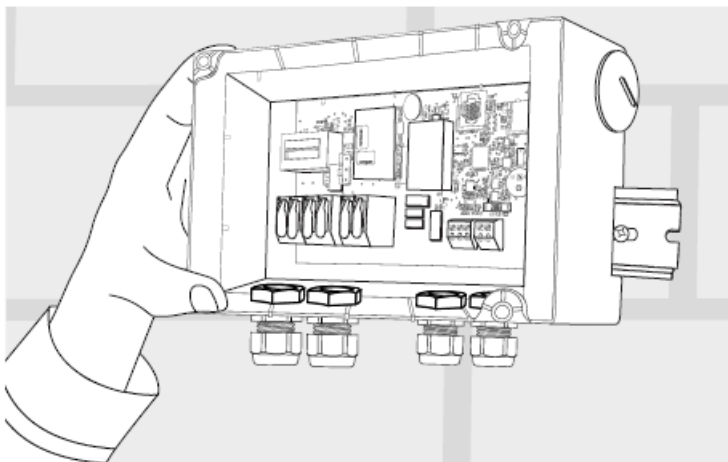
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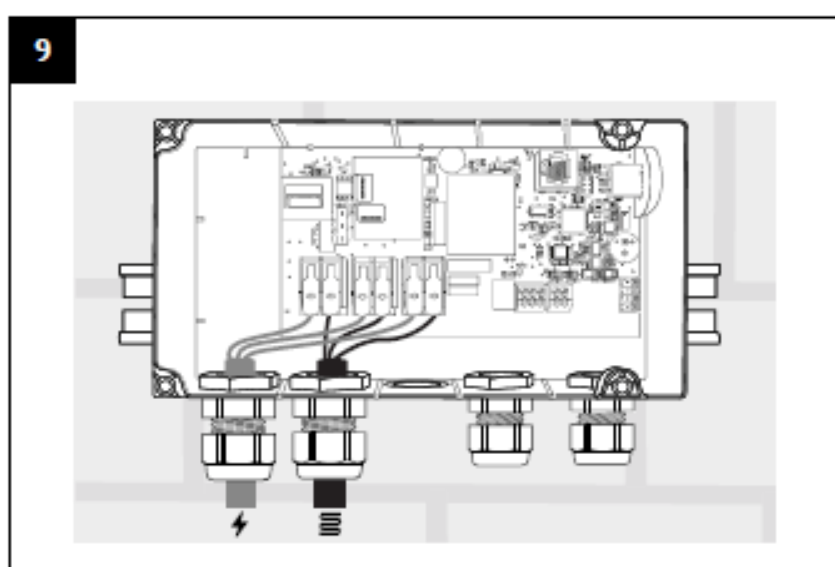
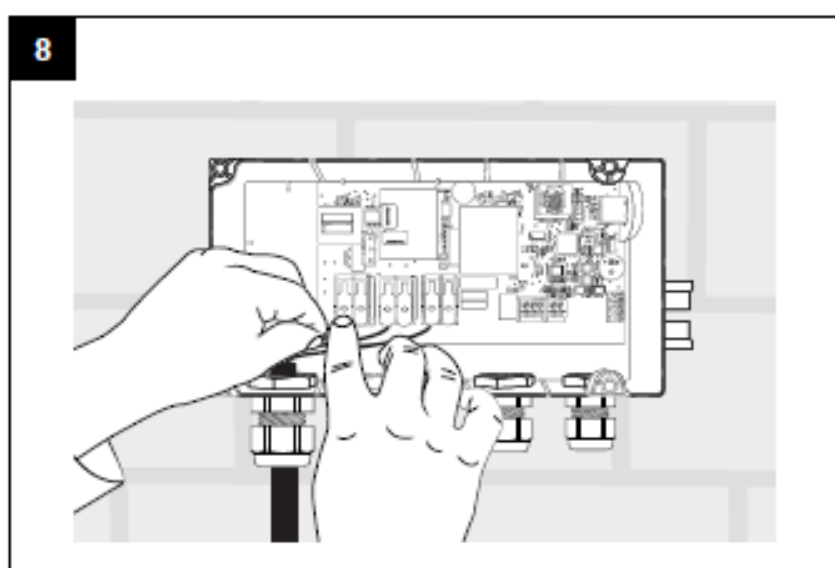
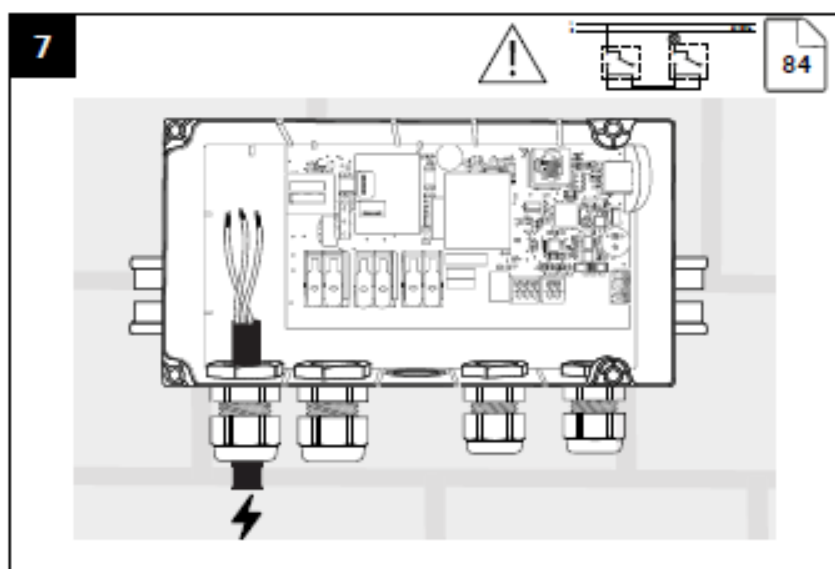


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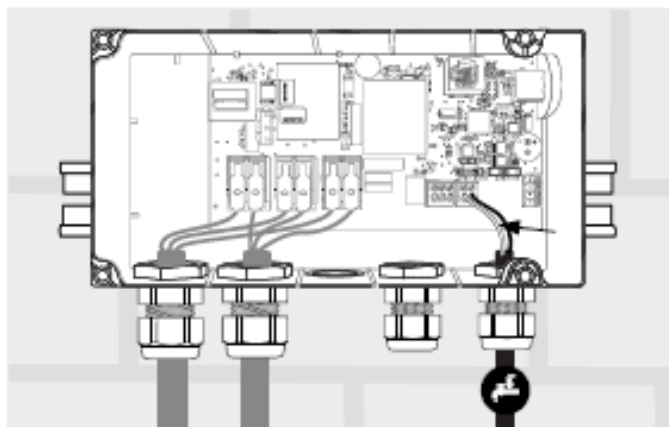


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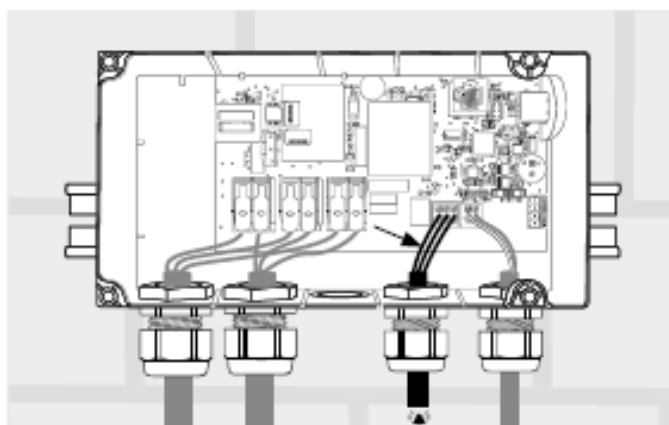




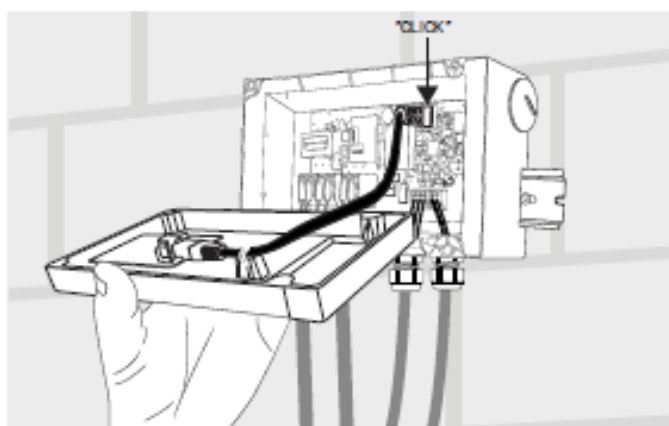
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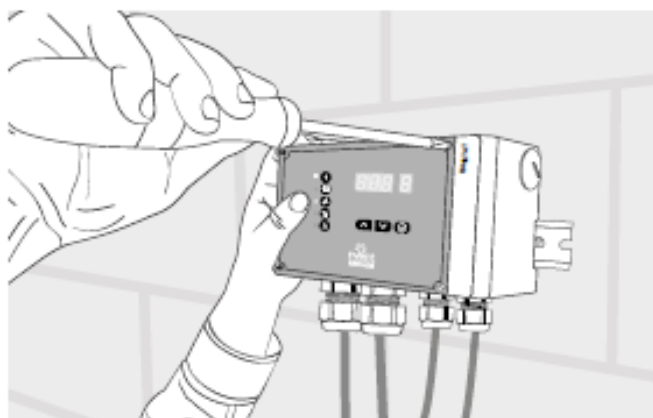
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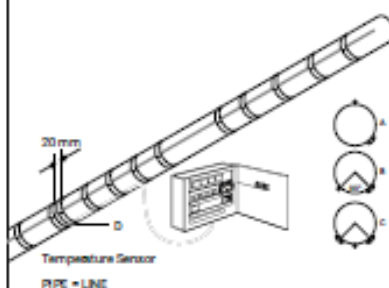
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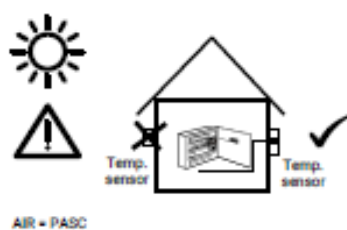
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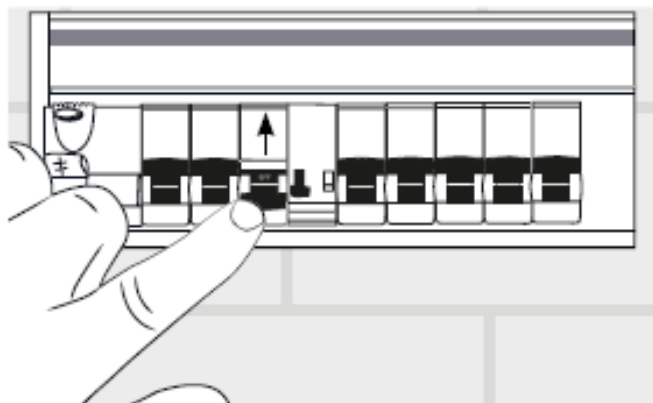
14.1



14.2

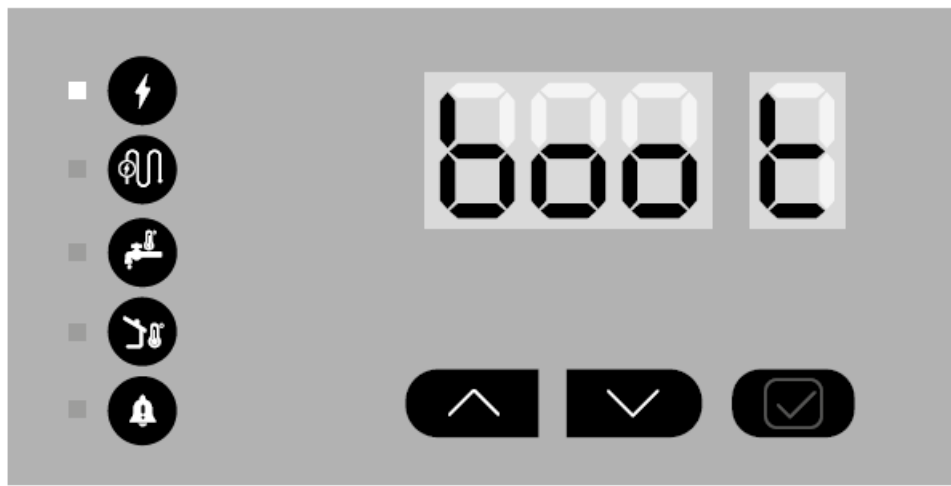


15



PROGRAM START – QUICK START

Quick Start



- POWER ON : Flashing
- Heating cable
- Pipe/line sensing
- Ambient sensing
- Alarm

~ 4 sec



2 sec

- Segment Test



1 sec



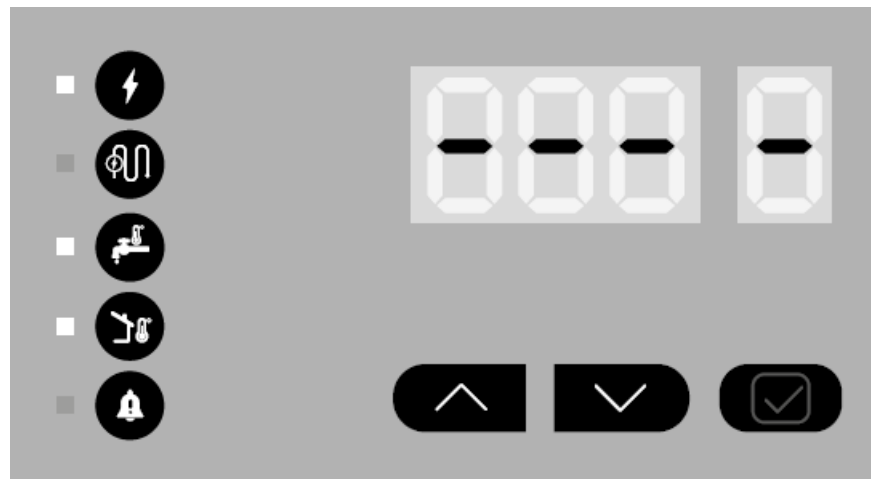
3 sec

- Unit name Raystat Version 5

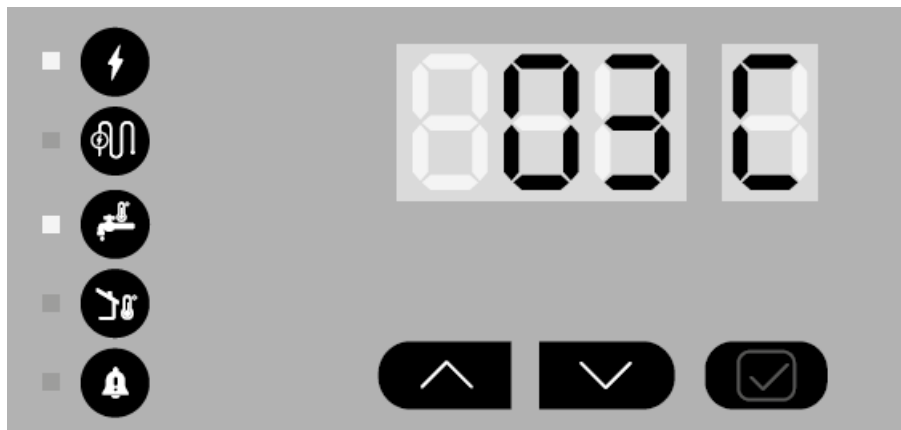


3 sec

- Firmware Revision number
- **Parameter DEFAULT:** — — — — PiPE Air



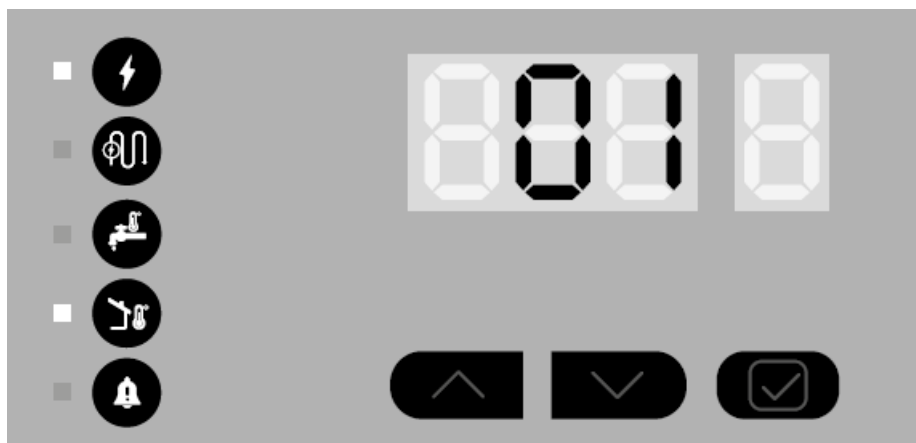
- **Quick start:** Select Operation Mode for pipe line (PiPE) or ambient temperatures sensing Air – (PASC – Proportional Ambient Control sensing)
- **Parameter PiPE:** 0°C... +90°C PASC: AIR (PASC) 0°C... +30°C DEFAULT: 3°C



- **Quick start:** Choose Setpoint Temperature
- **Parameters DEFAULT:** –20°C: –30 – 0°C



- (PASC-Air only): Lowest ambient temperature
- **Parameters**
 - 01 = Ø < DN 25 / 1"
 - 02 = Ø ≥ DN 25 / 1"
 - 03 = Ø ≥ DN 50 / 2"
 - DEFAULT: 01

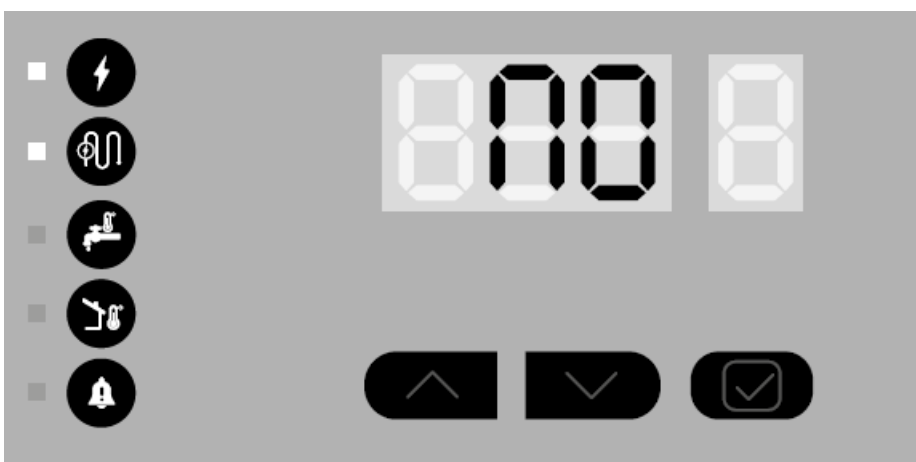


(PASC-Air only): Average pipe diameter level

- Parameters

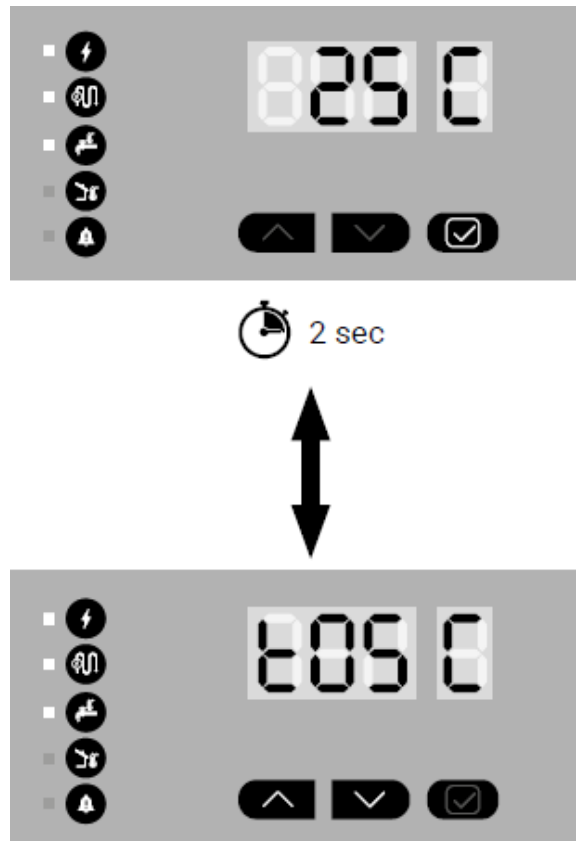
YES/NO

DEFAULT: NO



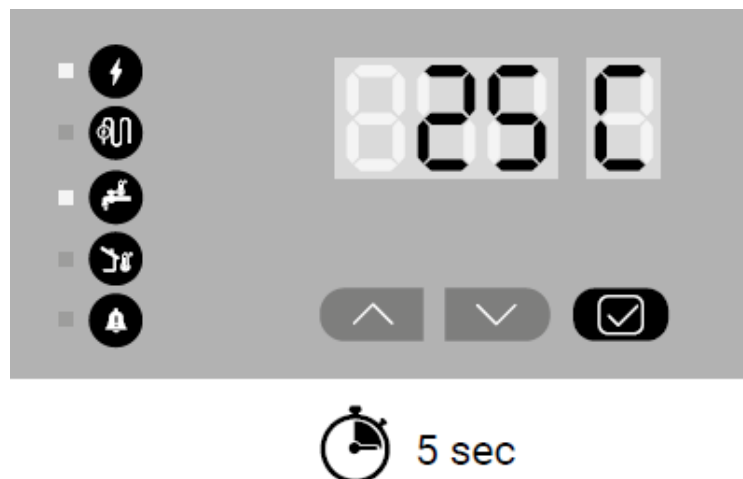
Heater operation via external contactor (only if load is not directly connected)

Display



Main display: actual temperature (xxC), setpoint temperature alternating (txxC)

PARAMETER SETTING



Press Check button for 5 sec. to go in Parameter setting. After 30 sec. without input of parameters the unit is set back to main display.



Escape from parameter settings.

- **Parameters**

DEFAULT: 3°C

PiPE: 0°C ... +90°C

Air: 0°C ... -30°C

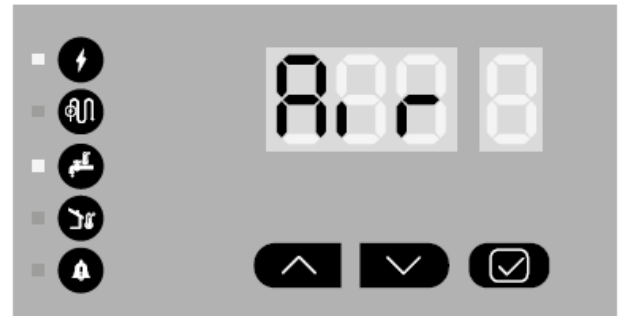


- **Setpoint SP1**: Setpoint Temperature
- Parameters PiPE Air

Parameters

PiPE

Air



- **Setpoint SP2:** Operation mode (possible to change previously selected parameter with up/down button) for pipe temperature sensing (PiPE) or ambient temperature sensing (Air). Recommendation for pipe sensing: cold water pipes: 3°C; fatty waste water pipes: 40°C.
- Parameters: -30°C0°C



- Setpoint SP3 (PASC-Air only): Lowest ambient temperature
- **Parameters DEFAULT:** 01
01 = $\varnothing < \text{DN } 25 / 1''$
02 = $\varnothing \geq \text{DN } 25 / 1''$
03 = $\varnothing \geq \text{DN } 50 / 2''$



- Setpoint SP 4 (PASC-Air only): Average pipe diameter level
- **Parameters DEFAULT:** ON
ON/OFF



- Setpoint SP5: Heater operation in sensor failure mode
- **Parameters**
YES/NO
DEFAULT: NO



- Setpoint SP6: Heater operation via external contactor

- **Parameters:** 1-5

DEFAULT: 1



- Setpoint SP7 (Pipe line only): Hysteresis

- **Parameters**

OFF/−40°C

DEFAULT: 0°C



🌡️ : -40°C - +78°C

- Setpoint SP8 (Pipe line only): Low temperature alarm

- **Parameters**

OFF/65°C

DEFAULT: 65°C



🌡️ : 2°C - 90°C

- Setpoint SP9 (Pipe line only): Higher temperature alarm Recommendation: Water pipe lines: max. 65°C; Fatty waste water lines: max. 85°C.

- **Parameters:**

ON/OFF
DEFAULT: ON



- Setpoint SP10 Alarm sound status

- **Parameters**

YES/NO

DEFAULT: NO

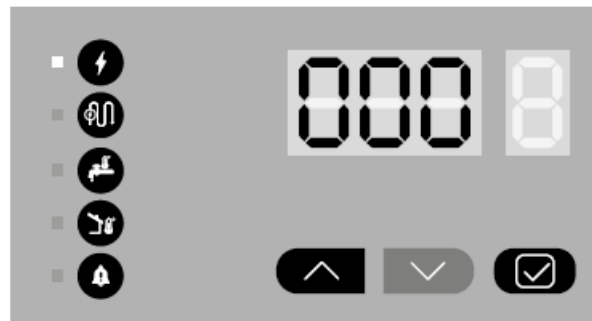


- **Setpoint SP11:** Test program starts, max. 30 min duration.

- **Parameters**

Code Nr: 036

DEFAULT: 000

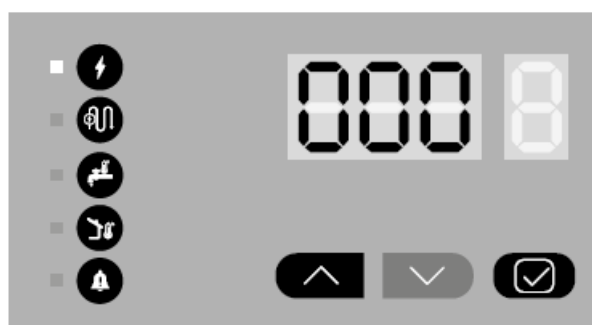


- Setpoint SP12: Activate/deactivate Key Lock / code: 036

- **Parameters**

Code Nr: 012

DEFAULT: 000

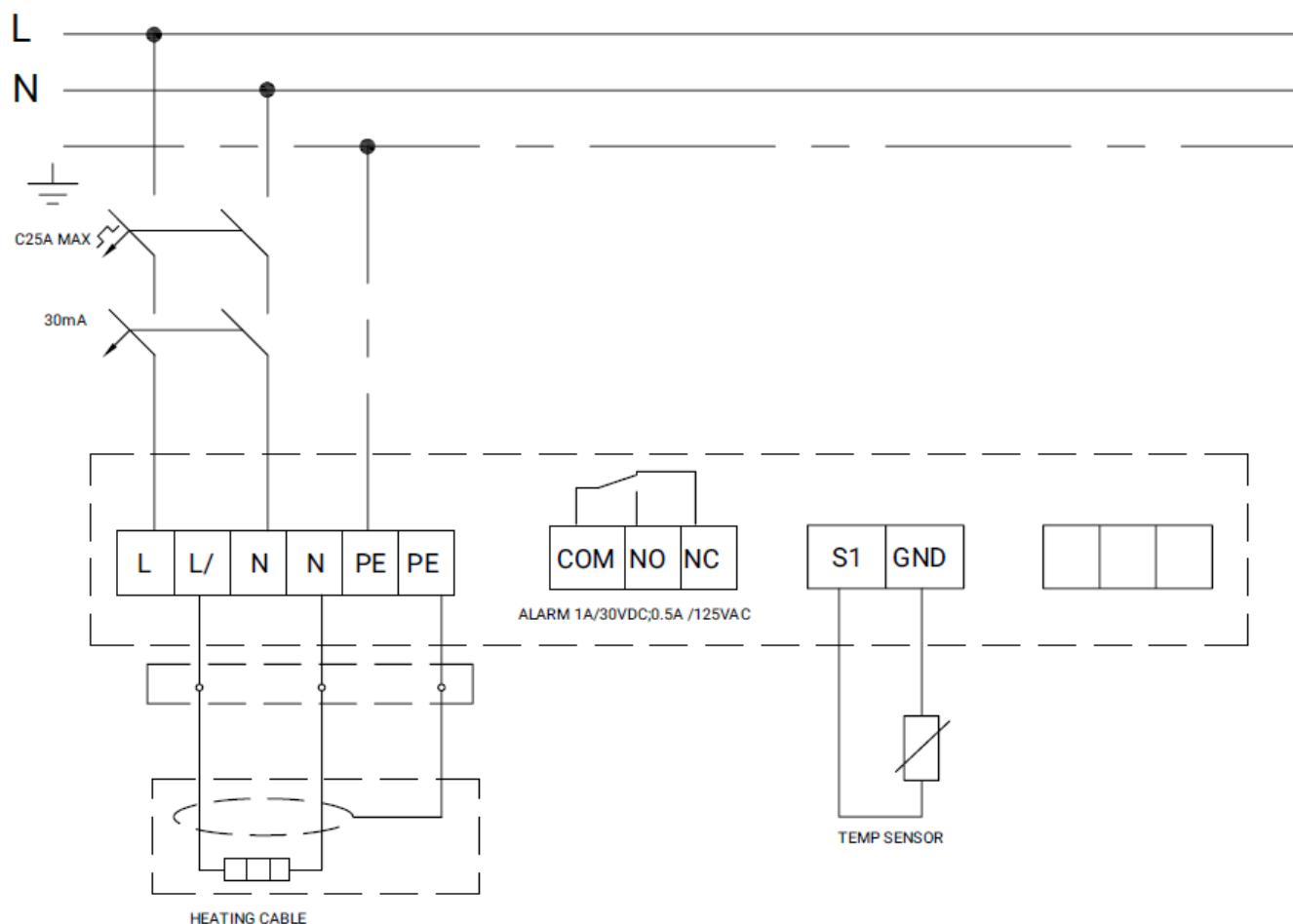


- Setpoint 13: Activate RESET to factory settings / code: 012. If Reset is triggered, Quick Start will be activated.

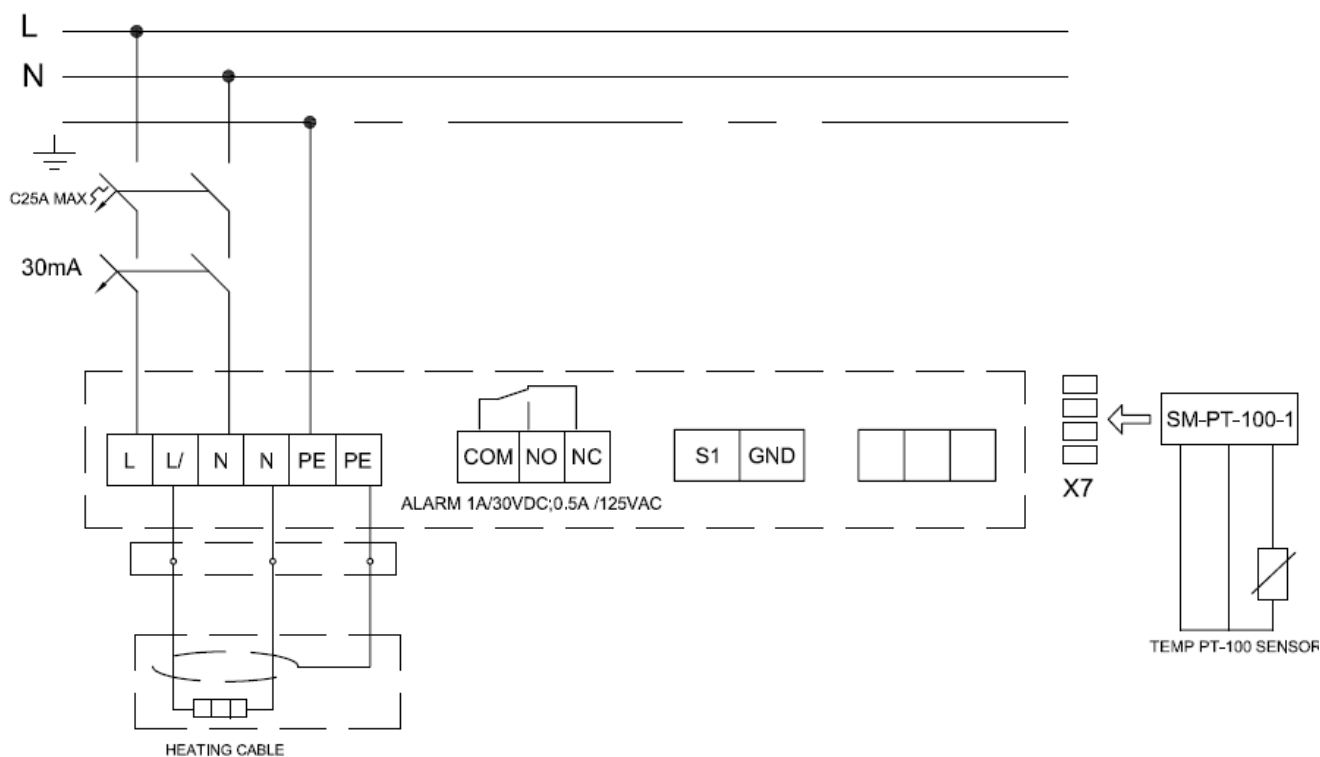
Note: If Quick Start is not completed, unit will be set back to last settings.

ELECTRICAL SCHEME

Standard: NTC Sensor



Option: PT100 Sensor



• HEATING CABLE

Documents / Resources

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References

- [!\[\]\(c6959c8bd021df9fa70a0d610ebca21e_img.jpg\) Electrical Heat Tracing | Heat Tracing | nVent RAYCHEM](#)
- [S Elektrowärmetechnik & Komfortlüftung: Systec Therm AG](#)