

## Enthalpy-dependent power control of heating cables

DIN rail housing, display, 230 VAC power supply, 1 triac 230 VAC output, 1 PT1000 input, 1 0-10 V input for humidity sensor, bus interface, plug-in terminals.

The DC24DTP module reduces the heating power of the window heaters to the minimum necessary. It measures the ambient temperature and humidity, calculates the dew point temperature and adjusts the power of the heating cables.

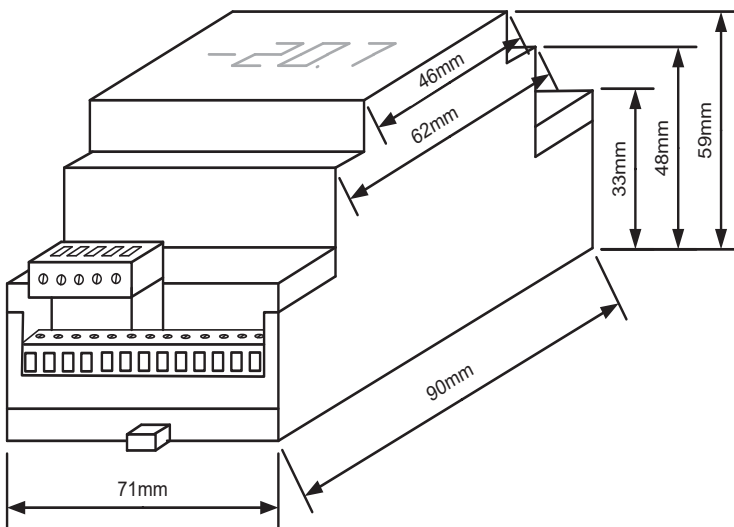


## APPLICATIONS

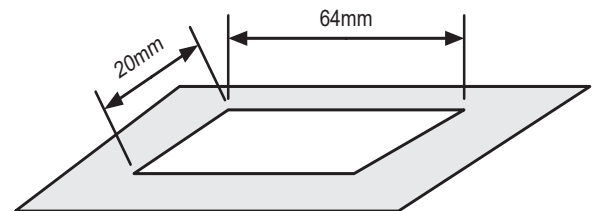
Heating cables for windows, doorframes yes

## DIMENSIONS

Module



Cut-out for display



## FEATURES

### Inputs

PT 1000	1
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0-10 V	yes
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### Outputs

TRIAC (24-230 VAC)	1
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### Others

White display	yes
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Power supply	230 VAC
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Remote monitoring bus interface	yes
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Clock	yes
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Electronic expansion valve	no
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Local bus for extensions	yes
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## TECHNICAL DATA

### Power supply

Supply voltage	110-250 VAC, 50-60 Hz
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Maximum input power	4 W
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Protection rating	1
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Contamination rating	2
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Overvoltage category	II
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### Operating conditions

Temperature	0-40° C
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Humidity	0-80% (without condensation)
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Switching capacity of the relay outputs	inductive 6 A 250 VAC, resistive 10 A 250 VAC
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Breaking capacity of triacs outputs	inductive 6 A 250 VAC, resistive 10 A 250 VAC
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Minimal current of triac output	11 mA
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Clock – reserve operating margin	4 days
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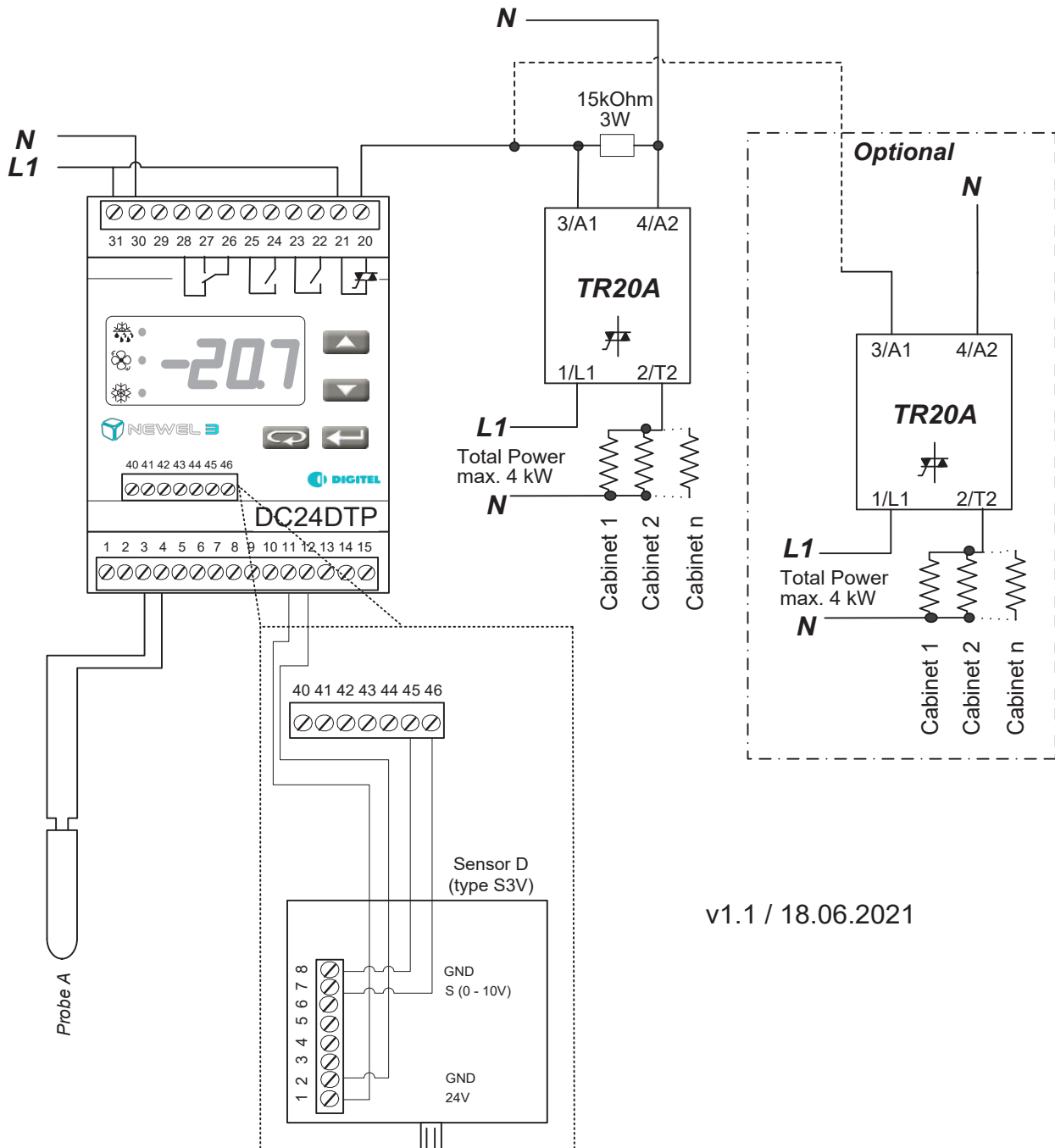
Input 0-10 V	range of measurement: 0-10 V
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Input 4-20 mA	range of measurement : 4-20 mA
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# ASSEMBLY DIAGRAMS

## Heating cables for windows

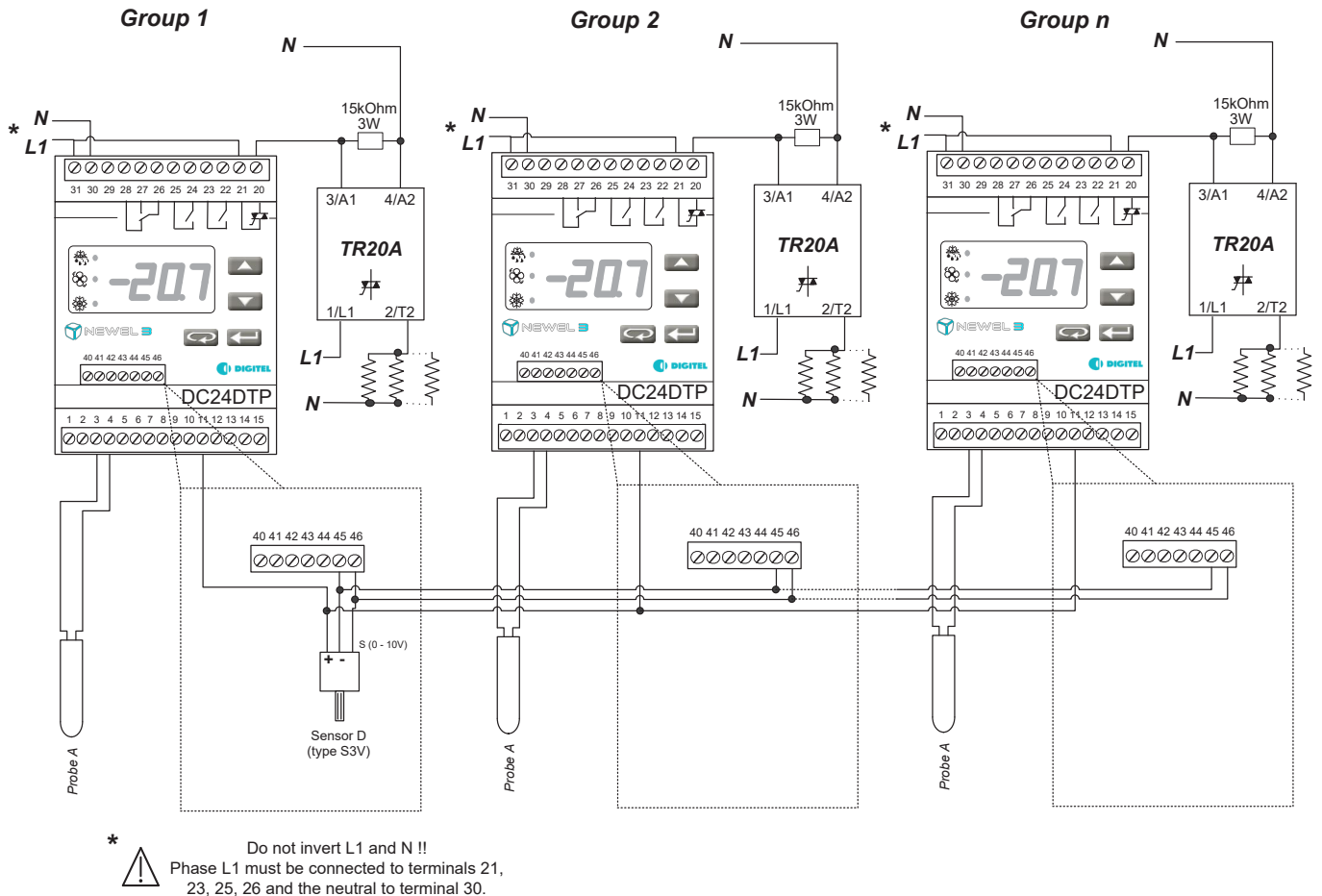
The control is done by varying the switch-on time of the power triac over a period of 50s (PWM control). A triac can control several heating cords on several cabinets. When the total power exceeds the maximum load of the triac, several triacs (maximum 10) can be controlled in parallel by the same DC24DTP controller.



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## Control of window heating cables - large installations

In larger installations, cabinets can be grouped according to type. Each group is then controlled by a separate controller.



### About us

Digitel provides high-end control, monitoring and remote management solutions for installations requiring a high degree of performance: refrigeration, heat recovery, controlled atmosphere chamber, growth chamber or special and customized installations.

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