

WIWATRONIC L with Reset / Ventilation control box

Description:

The WIWATRONIC is an industrial temperature controller for air heaters with the following features:

- Splash water tight housing (IP 65).
- Per day programmable digital clock with 20 independent positions.(See Grässlin DIGI 20 instructions).
- Night-time temperature set-point adjustable between 0°C and +15°C. Factory setting: +5°C.
- Two-stage control (230 Volt), difference in between stages: 1,0°C.
- To be used for up to 6 air heaters.(10 Amp.)
- Lock with key for cover as an option.
- Remote temperature sensor as option.

Installation:

- Attention,the temperature-sensor is fitted **in** the Wiwatronic, so the control-box must be installed at the spot of the desired temperature. If this is not possible,the remote sensor (IA 3954) can be used. Remove the internal sensor and use shielded low voltage cable for connection of the remote sensor.
- Connect Wiwatronic and air heater(s) according to wiring diagram WW 016. Attention : use for each air heater a separate reset/ventilation box (IA.5010) for remote control. Use cable 5 x 0,75 mm². If however, this cable between reset/ventilation box and air heater becomes longer than 10 metres, a separate, shielded cable must be used for the wires 8,9 and N. (This is to avoid that an induction-current is picked-up from wires 1 and 2. The alarm light could lit up, and even mal-functioning could occur.)
- Connect power to Wiwatronic and to the air heaters, L,N and ground. Attention, use absolutely the same group,with a separate disconnect and fuse. Use cable 3 x 1,5mm².
- Do not connect power cable to air heater with a plug ! With a disconnected plug the heater could eventually start without the possibility to run the fan and overheating would occur. NO GARANTEE !
- If Wiwatronic is used for only one air heater, power supply to air heater can be taken-off the Wiwatronic terminal strip.
- Connect terminal 3 and 5 in-between Wiwatronic and air heaters, use cable 0,75mm² and a connection box.
- If a service disconnect is necessary for each separate air heater, use a 4-pole disconnect and use it on wires L, N, 3 and 5. The air heater can than be completely separated from the power supply.
- The jumper wire between terminals 1 and 4 in the air heaters may be removed.

Operation:

- Attention; check that line and neutral are not interchanged, air heaters will go to lock-out !
- Adjustment of the night-time temperature is done with the little potentiometer on the printed circuit-board (NACHT). To do this the front-plate including the digital clock must be taken-off. Remove first the temperature adjustment-knob. Factory setting is + 5°.
- Program the Grässlin clock according to the Grässlin instructions on next page.
Attention: The black dot (**on**) means **night-time** ; the open circle (**off**) means **day-time**. First set the start of a day-time period (open circle) ,and than the end off that day time period.(black dot)
- Manually day-time or night-time temperature can be selected by pressing the 'hand'button on the little clock.

Operation instructions GRASSLIN digi 20 Clock

Always press the **RESET** key with a pen before a complete reprogramming.

Setting time and date:

During summer-time first press key **+1h** once.

Press key **CLOCK**, hold depressed while you set time and date by using keys **Day**, **h** and **m**.

After releasing the key **CLOCK**, the double dot should flash every second.

Entering program points:

You must now enter the starting time and the finish time from each period that the heater should be on **day** time temperature.

The starting time of this period you can set by a "open circle", the finish time is set by a "black dot" in the display.

Press key **Prog**.

Select a required day (or days) with key **Day**

With keys **h** and **m** you set the start-time, when you want the heater to go to daytemperature.

With the key **HAND** you select the symbol "open circle"

Press key **Prog**.

Now you have to set the finishing time of this period of daytemperature, so again use the keys **Day**, **h** and **m**, and thereafter you select the symbol "black dot" with the **HAND** key.

Press key **Prog**.

You have now programmed only one period (which can be several days). If you want more periods with daytemperature, (for example during some hours on a Sunday), you must repeat the above programming for each period.

If a period is not filled in complete, the missing part will stay flashing.

If you are ready with programming, press key **CLOCK** to return to 'running' mode.

You can now see on the symbol "open circle" or "black dot" if you are in the period of daytemperature or in the period of nighttemperature.

Remark:

You can also switch the clock manually with the **HAND** key (for example during an overwork time period). You select then the wanted "open circle" or "black dot" by pressing key **HAND**.

On the display you then see the symbol **HAND**. You can also select a rectangle symbol, this means a permanent situation, not dependant anymore on the clock.