

TP-82N wireless indoor thermostat

The TP-82N is a wireless indoor thermostat. It serves for the measuring and regulation of temperature. The temperature is set by the knob. The thermostat regulates a pre-set temperature 24 hrs per day.

The thermostat can be locked against unwanted manipulation. As well as the regulation of temperature it can also report reaching the high and low temperature limits.

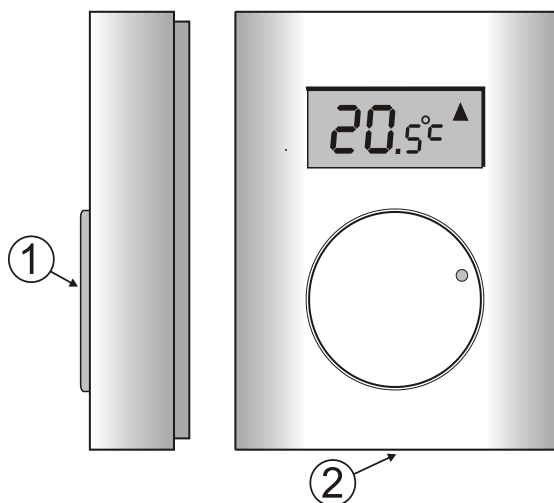


Figure 1: 1- knob (encoder) combined with button 2- tab

Thermostat installation

The product can only be used in an indoor environment. Install the thermostat 1.5 m above the floor in a place where there is good natural air circulation. Don't install the thermostat where the measuring can be influenced by drafts, sunlight, heaters or any other effects. Avoid mounting the thermostat on metal objects or metal bases which block radio communication.

1. By pressing the tab (by screwdriver for instance) release the front part of the thermostat.
2. Install the rear part of the thermostat at the choose place (tab down).
3. Insert the batteries; the polarity is marked on the plastic.
4. Put back the front thermostat part and close it.

Enrolling the thermostat

Install and connect the receiving unit to the heating appliance. If the receiver has been bought independently, you have to enroll the thermostat to it first. Open the enrollment mode on the receiver (see its manual) and insert the batteries into the thermostat or press and hold the knob for 5 s. In both cases the thermostat will send an enrollment signal.

Symbols on the LCD:

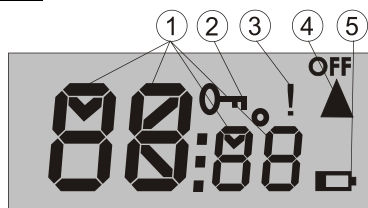


Figure 2: 1 – Symbols of temperature and texts; 2 – Locking the thermostat; 3 – Alarm temperature-limits / Loss of communication; 4 – Heating ON / OFF; 5 – Low battery

Settings and programming

Do the complete settings using the knob – encoder. By pressing the knob 2 sec enter the programming mode.

General rules for programming:

1. Flashing of any icon on the LCD allows changing the option(s) or choosing a next item.
2. Perform choosing or changing by turning the knob (turning the knob is possible from left to right and vice versa).
3. Confirm the selection or change by briefly pressing the knob.
4. When the value of an item has been changed, then after this briefly press the knob and the changes are saved. Then the thermostat goes to the next item in the programming menu.
5. After the setting / change of the chosen items, select the parameter „OK“, in the menu. By short pressing the system returns back to the previous menu (up to the main menu).
6. If there is no manipulation of the knob for 30 sec, it returns you back to the previous menu automatically.

The basic menu has 4 groups of settings.

LOc	Locking the thermostat
OFF	Switching off the thermostat
SEt3	Service menu
OK	Saving the parameters and leaving the service menu

1. LOc – Locking the thermostat



To protect the thermostat against unwanted manipulation you can lock the thermostat. Enter the menu and press the knob on the item **LOc**, the options **ON/OFF** appear. By turning the knob select the requested state and confirm by pressing. Choosing **ON** enables the function **Lock**, and **blocks** thermostat control. To unlock the thermostat choose the option **OFF**. Locking the thermostat is indicated on the LCD by the **ON** symbol.

2. OFF – Switching off the thermostat



The thermostat can be switched off by the option **OFF**. Enter the menu and press the knob on the item **OFF**, the options **ON/OFF** appear. By turning the knob select the requested state and confirm by pressing. Choosing **ON** enables the function **OFF**, and **switches off** the thermostat. This is indicated on the LCD by the text **OFF**. Although the thermostat has been switched off, it still measures and detects the antifreeze temperature (see SE t3, Stby). To unlock the thermostat enter the menu and choose the option **OFF**. When the knob is pressed the thermostat will be unlocked.

3. SEt3 – Service menu

The service parameters can be pre-programmed here. In a normal mode it is not necessary to change those parameters. The Service menu includes 8 items. Open by scrolling the knob to the requested item and by pressing the knob enter the programming mode. Select the value again by scrolling the knob. Confirm it by pressing the knob and it returns you back to the service menu.



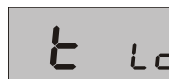
HYSt is an item, where you can program the range of the switching thresholds around the requested temperature (hysteresis). The range can be set with a 0.1 °C step from 0.1 °C to 1 °C. (Default setting 0.2°C)

Example: With a set accuracy of 0.5 °C a temperature of 24 °C will be kept this way, at 23.5 °C it starts heating and at 24.0 °C it stops heating. In real conditions regulation could have a much bigger temperature scatter because of the thermal inertia in the heated premises.

Warning: An over-narrow pre-programmed hysteresis range could perform on/off switching of the heating very often.



The item **Stby** sets the temperature which will be kept in the case of switching off the thermostat (item **OFF**). The **Stby** temperature is always at least 3 °C higher than **ALLo**. The value of the **Stby** temperature does not have to be set higher than the **tLo** temperature.



The **tLo** item is the lower limit to which economical temperate can be set.



The **tHi** item is the upper limit to which the comfort temperature can be set.



ALLo is the lower critical temperature. When the temperature drops under the pre-set value, the thermostat sends an alarm report to the receiver and this state is indicated by a permanently lit (!) symbol. The **ALLo** temperature is always at least 3 °C lower than **tLo**.



ALHi is the upper critical temperature. When the temperature increases above the pre-set value, the thermostat sends an alarm report to the receiver and this state is indicated by a permanently lit (!) symbol. The **ALHi** temperature is always at least 3 °C higher than **tHi**.



For a reset to factory default settings the **RES** item is used. After you enter the menu and press the knob on the **RES** item **ON/OFF** appears. By scrolling the knob select **ON**, and press the knob. Then a **RESET** will be done. When the reset is finished, a 20 °C temperature is pre-set.



By pressing the knob when the thermostat shows you **OK** you leave the service menu and return to the basic thermostat menu.

Range of temperatures settings.

Settings item	Range	Factory settings	Description
Hyst	0.1 °C to 1 °C	0.2 °C	Hysteresis
t Lo	+ 6 °C to + 40 °C*	6 °C	Lower limit of regulated temperature
t Hi	+ 6 °C to + 40 °C*	40 °C	Upper limit of regulated temperature
AL Lo	- 9 °C to + 20 °C	3 °C	Low temperature alarm report
AL Hi	+ 30 °C to + 70 °C	60 °C	High temperature alarm report

* The ranges of **t Lo** and **t Hi** can't overlap each other.



Showing the pre-set temperature

The thermostat always shows the current room temperature in the normal mode. Briefly pressing the knob will show the temperature which has been set for this time. The pre-set temperature flashes 3 s then it shows the current temperature again.

Replacing the batteries

When the thermostat starts to indicate the Low Batt symbol (🔋) or stops working completely, replace the batteries for new ones. A Low battery report is sent to the receiver.

Note: We strongly recommend only using alkaline batteries, type AA 1.5 V.

Integration into the OASiS system

The thermostat can be enrolled to a control panel as a detector. If the temperature decreases below **AL Lo** a panic alarm will be triggered = frost threat (heating failure).

If the temperature exceeds **AL Hi** then a fire alarm will be triggered.

An AC-82 receiving unit (AC-82) has two output relays (X and Y). Thermostats can be enrolled separately to each relay in order to control two independent heating circuits.

To operate a heating system the OASIS control panel can also be enrolled (sequence 299) to the same relay of the receiving unit (AC-82) as the thermostat is enrolled to. A thermostat enrolled to the X relay can be operated via the PGX programmable output, and a thermostat enrolled to the Y relay operated via PGY. If the programmable output of the control panel is switched on, the thermostat maintains the programmed temperature. If the control panel's output is switched off the thermostat only triggers heating if the temperature drops below **Stby**.

To operate the heating, RC-80 or RC-88 remote controls can also be enrolled to receiving unit (AC-82). The heating can be switched on by remote controls to heat to the desired temperature and also switched off where it only heats when the temperature is below **Stby**.

To disable heating when windows are open JA-81M or JA-82M detectors can also be enrolled to the same relay as the thermostat is enrolled to. If the windows are closed it heats to the desired temperature and if windows are open it heats only when the temperature is below **Stby**.

Up to 8 thermostats can be enrolled to a single relay. If at least on the thermostat transmits a heat command then the relay will be switched on.

Technical specifications

Power: 2x AA LR6 1.5 V / 2.4 Ah alkaline batteries
Please note: Batteries are not included

Lifetime of batteries: typically 2 years

Regulation range: +6 °C to +40 °C

Temperature regulation sensitivity: adjustable: 0.1- 1 °C

Alarm when temperature drops below ALLo: -9 °C to +20 °C

Alarm when temperature exceeds ALHi: +30 °C to +70 °C

Communication band: 868.5 MHz, Oasis protocol
up to 100 m (open area)

RF range:

Operational temperature: -10 °C to + 70 °C (no condensation)

Dimensions: 66 x 90 x 22 mm

Complies with: ETSI EN 300220, EN 50130-4, EN 55022, EN 60950-1

Can be operated according to: ERC REC 70-03



JABLOTRON ALARMS a.s. hereby declares that the TP-82N is in a compliance with the relevant Union harmonisation legislation: Directives No: 2014/53/EU, 2014/35/EU, 2014/30/EU, 2009/125/ES, 2011/65/EU. The original of the conformity assessment can be found at www.jablotron.com - Section Downloads.

Note: Although this product does not contain any harmful materials we suggest you return the product to the dealer or directly to the producer after use.