

MKL51904

4. M4 – Service menu

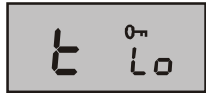
This menu allows for the configuration of parameters which usually stay fixed during normal operation. When the service menu is entered, the **0m** symbol is shown on the display. The menu contains 9 items (they can be scrolled through by turning the knob). Each of the first 7 items corresponds to a parameter which can be configured in a standard way (by pressing the knob, turning the knob until the desired value is displayed, and re-pressing the knob).



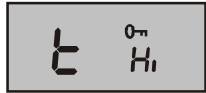
The **SPAN** parameter allows you to configure the hysteresis – the accuracy to which the temperature is regulated. One of the following accuracy ranges can be selected: $\pm 0.1^\circ\text{C}$, $\pm 0.2^\circ\text{C}$ or $\pm 0.5^\circ\text{C}$ (the factory default setting is $\pm 0.2^\circ\text{C}$).

Example: If the accuracy is adjusted to $\pm 0.5^\circ\text{C}$ and the temperature is set to 24°C , the thermostat switches the heating on when the temperature drops below 23.5°C and it switches it off if the temperature goes above 24.5°C . In reality the temperature scatter can be slightly higher because of the temperature persistence of the room.

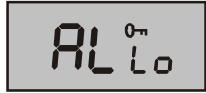
Warning: too high an accuracy can cause the heating to turn on and off too frequently.



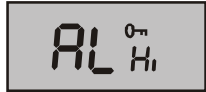
The **t Lo** parameter is the lower limit to which the economical temperature can be set. In addition, any drop in temperature under **t Lo** causes a "heat to **t Lo** temperature" signal to be transmitted.



The **t Hi** parameter is the upper limit to which the Comfortable temperature can be set.



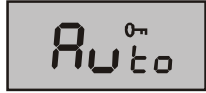
The **AL Lo** corresponds to the **critically low** temperature. Any drop in temperature under **AL Lo** causes a Panic signal to be sent to the receiver (reporting a frost threat).



AL Hi corresponds to the **critically high** temperature. Any rise in temperature above **AL Hi** causes a Fire signal to be sent to the receiver.



The **Corr** parameter allows for a correction of possible temperature measurement offsets. The range of adjustable corrections is $\pm 1^\circ\text{C}$.



This parameter allows you to enable or disable thermostat adaptive mode. If enabled, the thermostat switches on in advance according to the temperature persistence of the heating system.



Selecting this item and pressing and holding the knob for 5 seconds resets the thermostat to the factory default settings.



By selecting **OK** and pressing the knob the menu is escaped from.

The parameter ranges are restricted according to the following table:

Parameter	Adjustment range	Factory default	Description
SPAN	0.1°C; 0.2°C; 0.5°C	0.2°C	Hysteresis for switching
t Lo	+6°C to +40°C*	6°C	Lower limit of ☉
t Hi	+6°C to +40°C*	40°C	Upper limit of ☼
AL Lo	-9°C to +20°C	3°C	Panic alarm
AL Hi	+30°C to +70°C	60°C	Fire alarm
Corr	$\pm 1^\circ\text{C}$	0	Correction
Auto	On/OFF	On	Adaptive mode
☉	+6°C to +40°C	18°C	Economical temperature
☼	+6°C to +40°C	21°C	Comfortable temperature

* **t Lo** to **t Hi** and ☉ to ☼ must be valid ranges: **t Lo** must not be greater than **t Hi** and ☉ must not be greater than ☼.

Party mode



You can put the thermostat into party mode by briefly pressing the knob (indicated by symbols ☼ and ☉ together). After then the thermostat maintains the Comfortable temperature increased by 2°C .

Party mode terminates whenever a switch to Economy temperature regulation occurs (whether manual or scheduled).

Displaying the set temperature

When not being handled, the thermostat shows the current temperature in the room. If you want to display the temperature which is set for the current time, **turn the knob**. The set temperature will then flash on the display for 3 seconds.

Battery replacement

Replace the battery when the low-battery symbol is displayed (or the thermostat stops working). If the thermostat is enrolled to the control panel, then a low battery will be indicated by the control panel (to the user and installer). Only use AA 1.5V alkaline batteries.

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 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 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 t Lo**.
- To operate the heating, RC-80 or RC-88 remote controls** can also be enrolled to a 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 t Lo**.
- To disable heating when windows are open** JA-80M 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 t Lo**.
- Up to 8 thermostats** can be enrolled to a single relay. If at least one thermostat transmits a heat command then the relay will be switched on.

Specifications

Power supply:	1x AA 1.5 V alkaline battery
Battery lifetime	typically 1 year
Temperature measurement:	+6°C to +40 °C
Temperature accuracy:	adjustable: ± 0.1 , ± 0.2 or $\pm 0.5^\circ\text{C}$
Freeze alarm (panic transmission) temperature threshold:	< AL Lo configurable from -9°C to $+20^\circ\text{C}$
Fire alarm temperature threshold:	> AL Hi configurable from $+30^\circ\text{C}$ to $+70^\circ\text{C}$
Operational frequency:	868 MHz, Oasis protocol
Operational radio range:	up to 100 m (open area)
Operational temperature range:	-10°C to $+70^\circ\text{C}$ (low humidity)
Dimensions:	66 x 90 x 22 mm
Complies with	ETSI EN 300220, EN50130-4, EN55022, and EN 60950-1

Can be operated according to ERC REC 70-03

CE Jablotron Ltd. hereby declares that the TP-83 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. The original of the conformity assessment can be found on the web site www.jablotron.com, Technical Support section.



Note: Dispose of batteries safely depending on battery type and local regulations. Although this product does not contain any harmful materials we suggest you return the product to the dealer or directly to the manufacturer after use.



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