Quantum Storage Heater

Reporting Screen Guide - Series G.6

08/82971/0-1

Front Screen

1. The currently active mode of operation e.g. ‘Out All Day’, ‘Home all Day’, ‘Frost Protect’, (set by the customer from within the Modes menu).

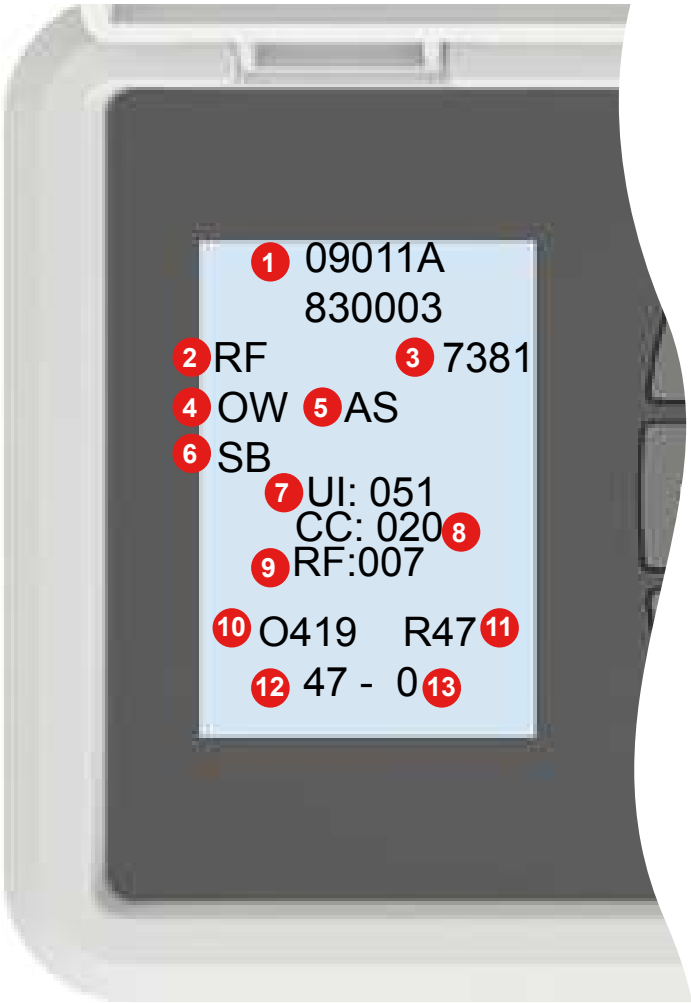
2. Advance status. This text line is displayed when a timer schedule is advanced.

3. Desired Room Temperature Set Point (°C) (set by the customer on the rotary control).

4. Heating Status - When the heater is in a timer profile and trying to achieve or maintain a room temperature, ‘Heating On’ will be displayed, otherwise, ‘Heating Off’ will be displayed. The words ‘Heating On / Off’ will not be displayed in a manual mode of operation e.g. Frost mode.

User Info Screen

1. GDID: Unique product reference number (12 digits)
2. RF: RF communication is enabled and active.
3. Test PIN code
4. OW: Open Window Detection is enabled.



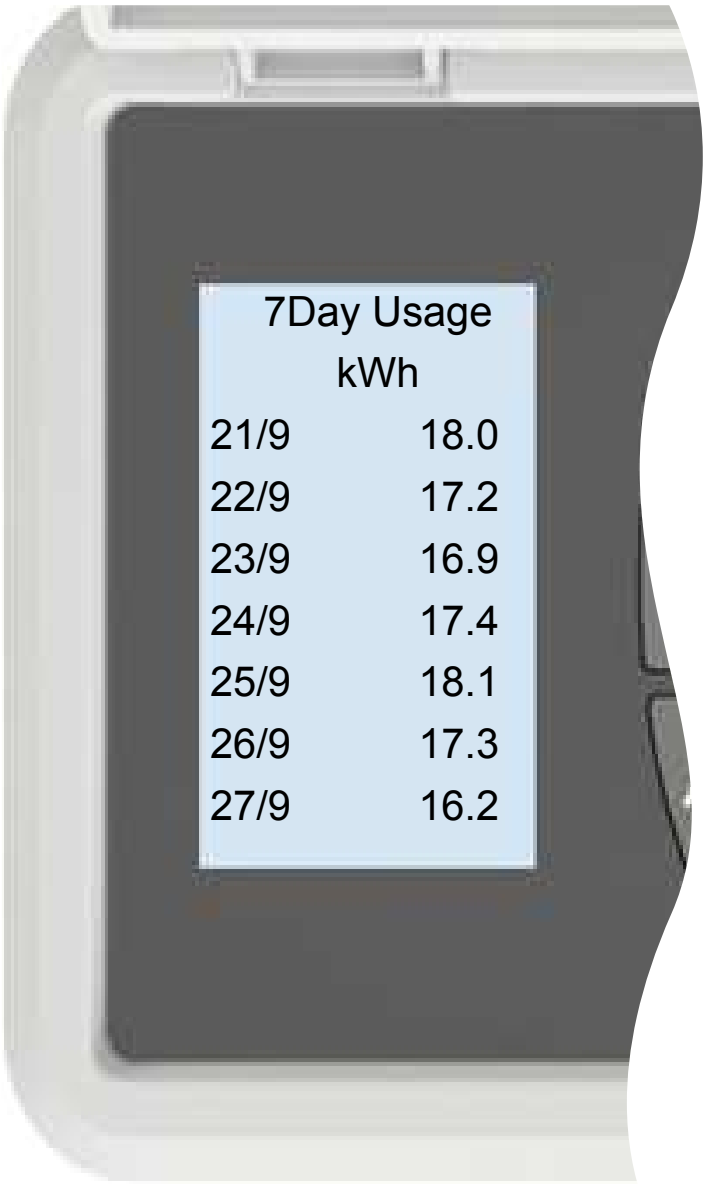
5. AS: Adaptive Start enabled.
6. SB: Setback Mode is enabled.
7. UI: User Interface Software Revision
8. CC: Charge controller software revision
9. RF: RF transceiver software revision
10. O: The counter of available off-peak supply to the heater, value in minutes. NOT the heater charge time. So in this example the off-peak mains supply to the heater was on for 419mins (from midnight onwards).
11. R: Daily runtime in mins. In this case the daily runtime is 47mins.
12. Morning runtime in mins. In this case the morning runtime is 47mins.
13. Afternoon runtime in mins. In this case the afternoon runtime is 0mins.

History Screen 1

Reports the daily runtime (mins) for the last 7 days.

History Screen 2

Reports the daily energy usage (kWh) of the off-peak mains supply for the last 7 days.



History Screen 3

Reports the minutes that the off-peak electricity supply is available daily for the last 7 days.

History Screen 4

Reports the off-peak electricity supply periods for the previous 24 hours. These are the times when the heater detects that the off-peak electricity supply is on. The heater needs to go through a full 24 hour cycle (midnight to midnight) before the times are recorded and displayed.

History Screen 5

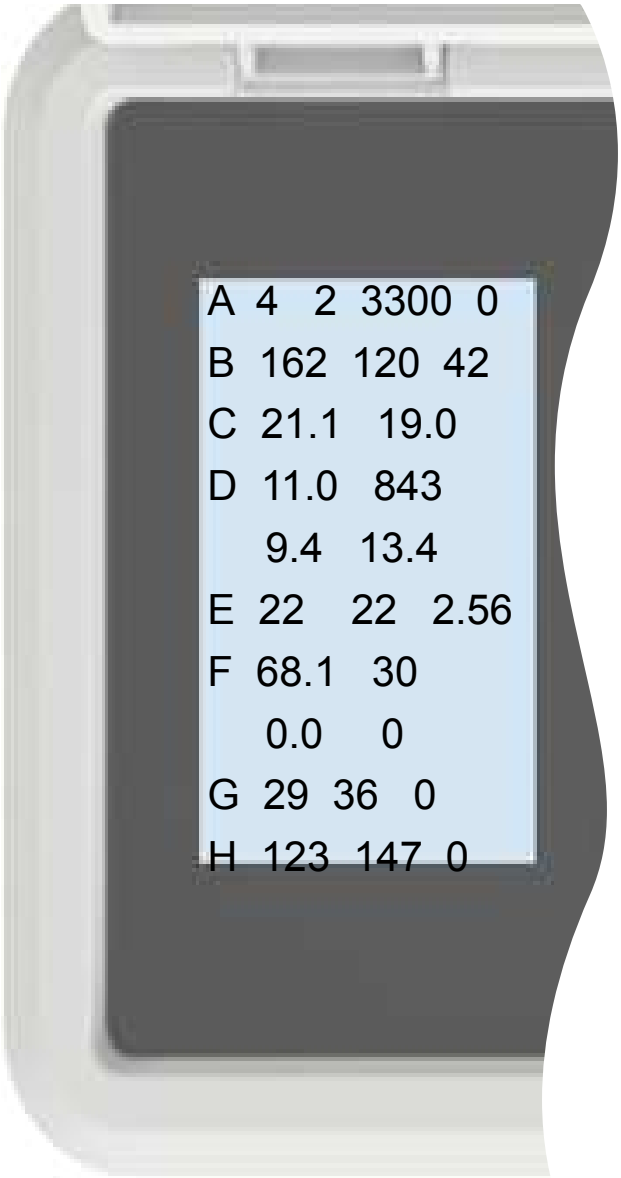
Reports the maximum daily room sensor temperature (°C) for the last 7 days.

History Screen 6

Reports the minimum daily room sensor temperature (°C) for the last 7 days.

Report Screen 1

Line A: **1st value = Seasonal Band (values 1 ... 7).**
2nd value = Seasonal Band (values 1 ... 7) based on date.
3rd Value = Heater rated power (Watts) (QMRF150 = 3300W).
4th Value = Extra charge (hours)



Line B: **1st value: Daily runtime (mins)**
2nd value: Critical runtime (mins)
3rd value: Incremental runtime (mins)

Line C: **1st value: Current Room sensor temp (°C)**
2nd value: Room sensor temp at 00.00 (°C)

Line D: **1st value: Programmed Heating Hours**
2nd value: Heat demand current period (kWh)
3rd value: Daily energy requirement (kWh)
4th value: Standing loss (kWh)

Line E: **1st value: Current set point (°C)**
2nd value: Set point at 00.00 (°C)
3rd value: Calculated residual energy (kWh)

Line F: **1st value: Current Core sensor temp (°C)**
2nd value: Core sensor temp at 00.00 (°C)
3rd value: Setback energy requirement (kWh)
4th value: Number of leaned O/P hours at end of last comfort period.

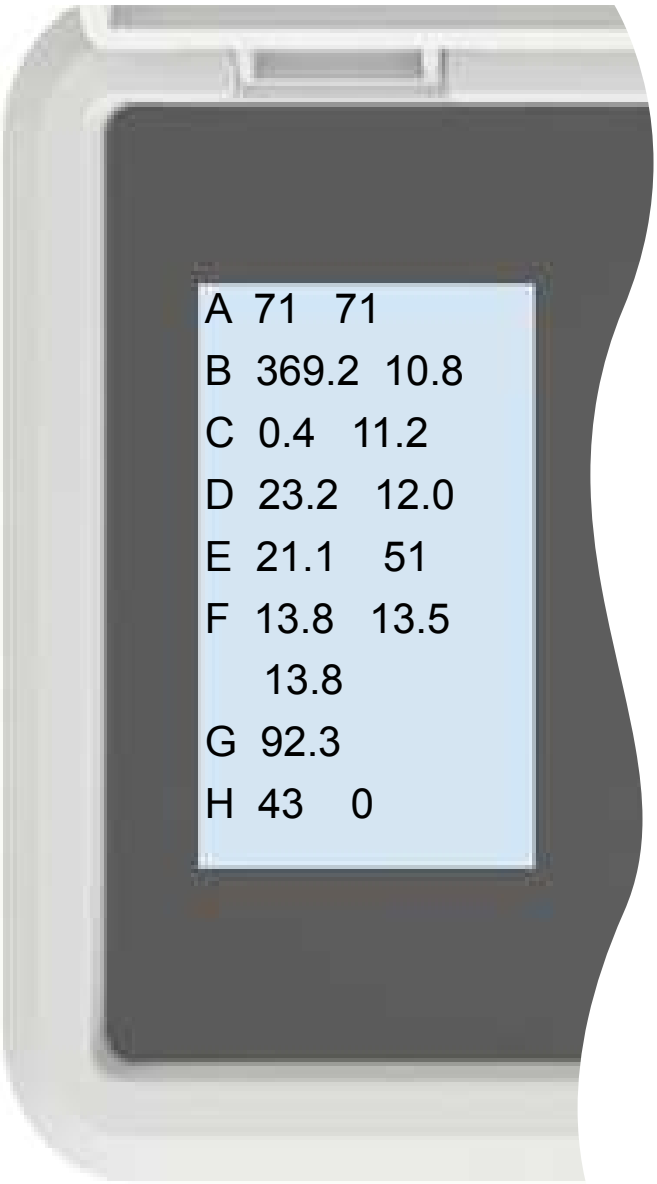
Line G: **1st value: 'Room temperature target' adaption function, minutes (adds to runtime).**
2nd value: 'Fan duty' adaption function, minutes (subtracts from runtime).
3rd value: 'Core Residual energy' adaption function (subtracts from runtime).

Line H: **1st value: Runtime history (yesterday's value) (mins)**
2nd value: Runtime history (day before yesterday value) (mins)
3rd value: Setback runtime (mins)

Report Screen 2

Line A : **1st value = Core temp sensor actual (°C).**

2nd value = Adjusted core temp sensor (°C).



Line B: **1st value: Calculated brick temp 1 (°C)**
2nd value: Brick temp to stored energy 2 (kWh)

Line C: **1st value: Energy losses 3 (kWh)**
2nd value: Energy losses + 4 (kWh)

Line D: **1st value: Total Energy Max (kWh)**
2nd value: Energy max cap. (kWh)

Line E: **1st value: Max stored energy (kWh)**
2nd value: Current charge level (%)

Line F: **1st value: Residual energy at 00:00 (kWh)**
2nd value: Adjsuted residual at 00.00 (kWh)
3rd value: Residual energy at 12:00 (kWh)

Line G: **1st value: Standing loss non comfort hours (Wh)**

Line H: **1st value: Optimised CRT (critical runtime) (mins)**
2nd value: Optimised IRT (incremental runtime) (mins)

Report Screen 3

Line A: **1st value: Room sensor temp (raw) (°C)**

Line B: **1st value: Additive room temp offset (°C)**
2nd value: Subtractive room temp offset (°C)

Line C: **1st value: Room temp offset dis. (°C)**

Line D: **1st value: Fixed offset (°C)**

Line E: **1st value: User temp offset (°C)**

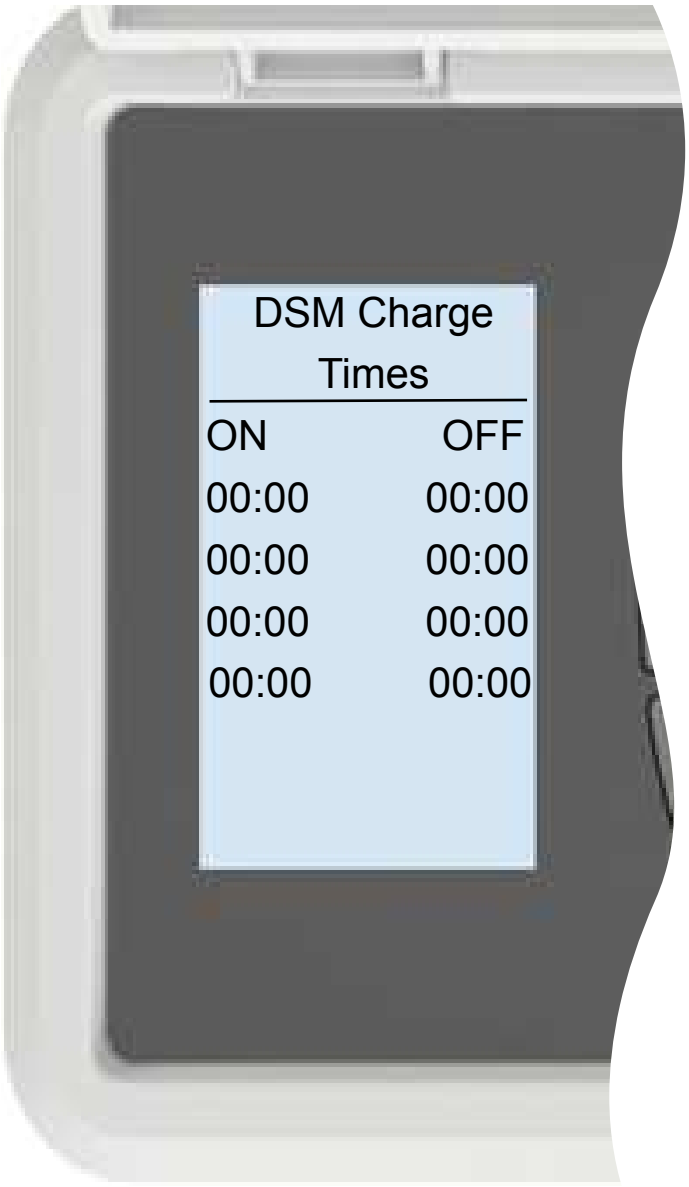
Line F: **1st value: Adjusted room temp (°C)**

Line G: **1st value: Setpoint diff (°C)**

Line H: **1st value: DSM Comms mode (1,2,3,4)**
2nd value: Comms mode (0=standalone, 1=comms mode)

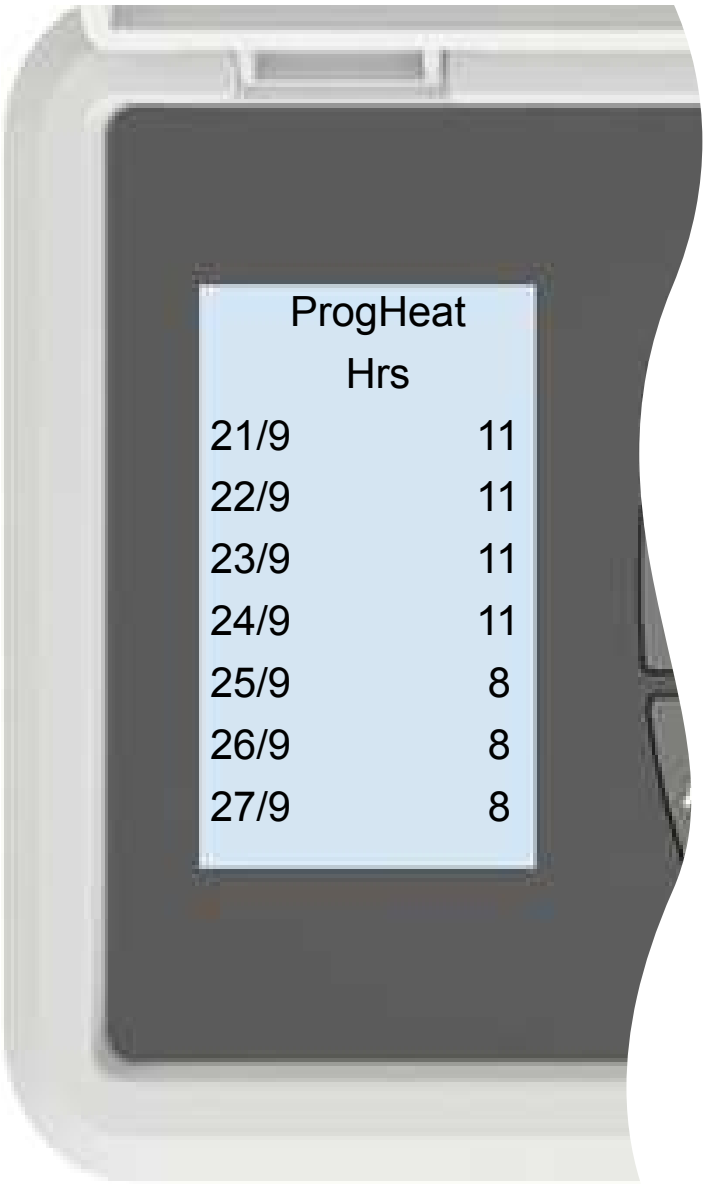
History Screen 7

Reports the current DSM charge times. Times only displayed when heater is being remotely controlled in DSM mode 1.



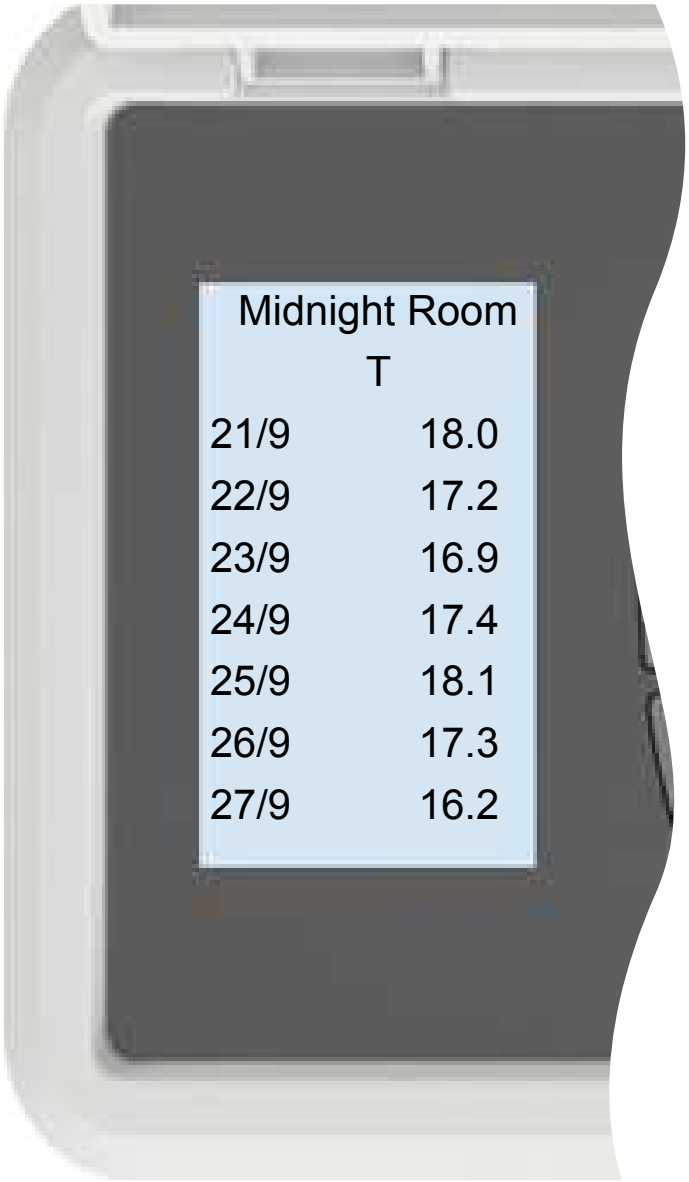
History Screen 8

Reports the programmed heating hours for the last 7 days.



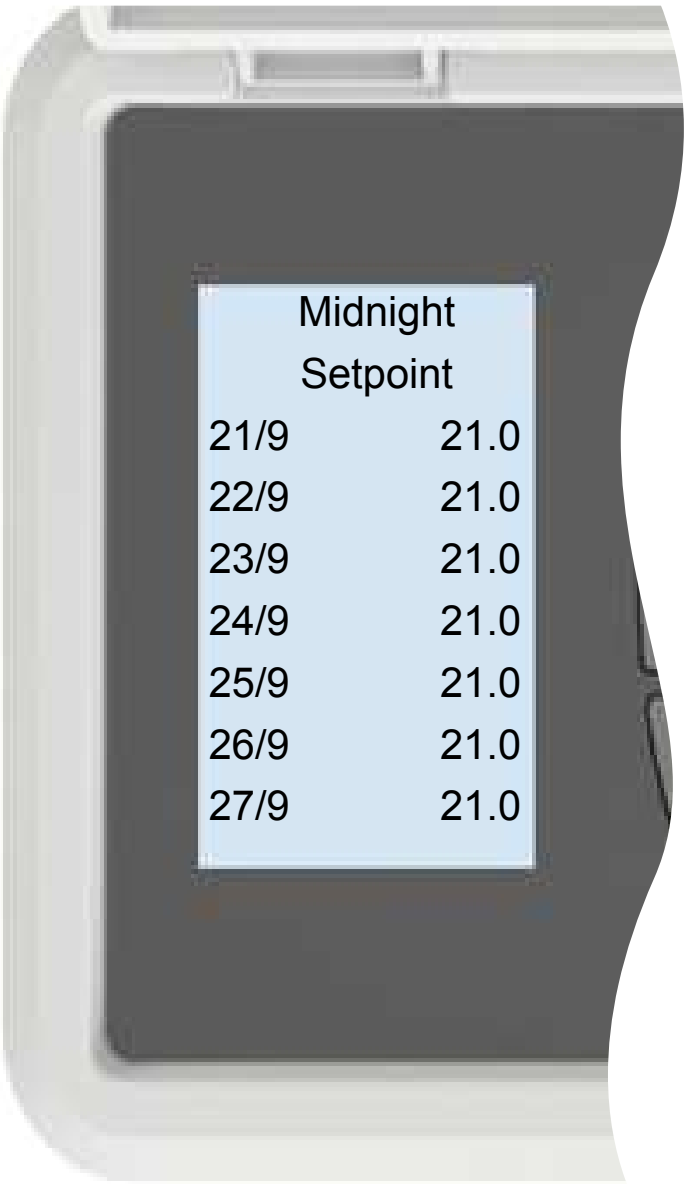
History Screen 9

Reports the room sensor temperature at midnight (°C) for the last 7 days.



History Screen 10

Reports the room temperature setpoint at midnight (°C) for the last 7 days.



History Screen 11

Reports the maximum core sensor temperature (°C) for the last 7 days.
Maximum core temperature is 110°C.

History Screen 12

Reports the 7 day history of the additional runtime added to the next day runtime when adaptive start is active. Screen not shown when adaptive start is disabled.