

Front Screen

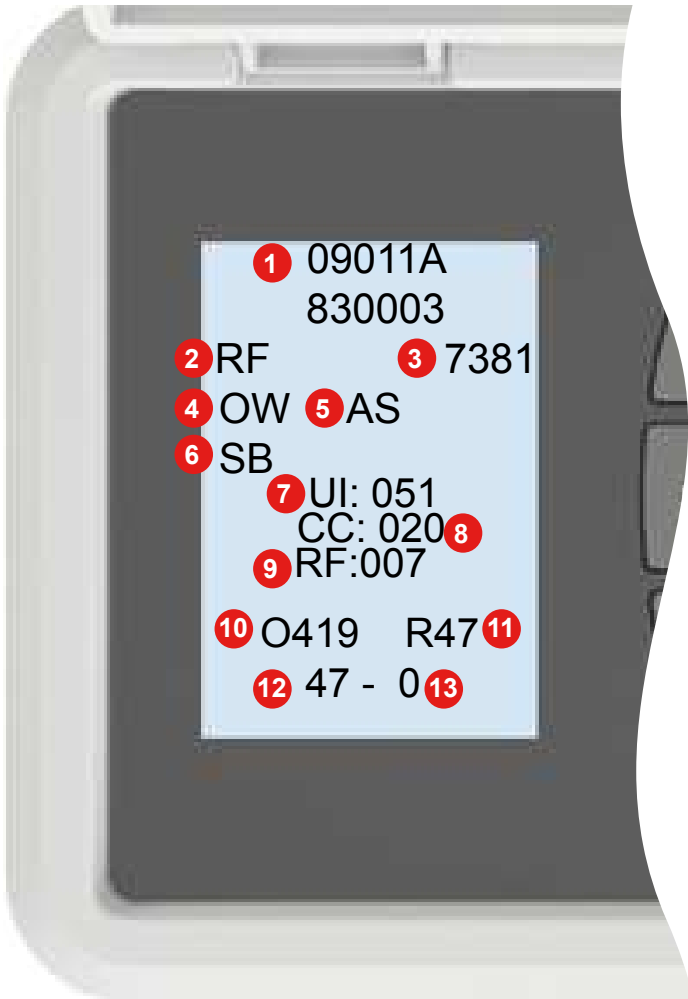
- 1 The currently active mode of operation e.g. 'Out All Day', 'Home all Day', 'Frost Protect', (set by the customer from within the Modes menu).
- 2 Advance status. This text line is displayed when a timer schedule is advanced.



- 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.

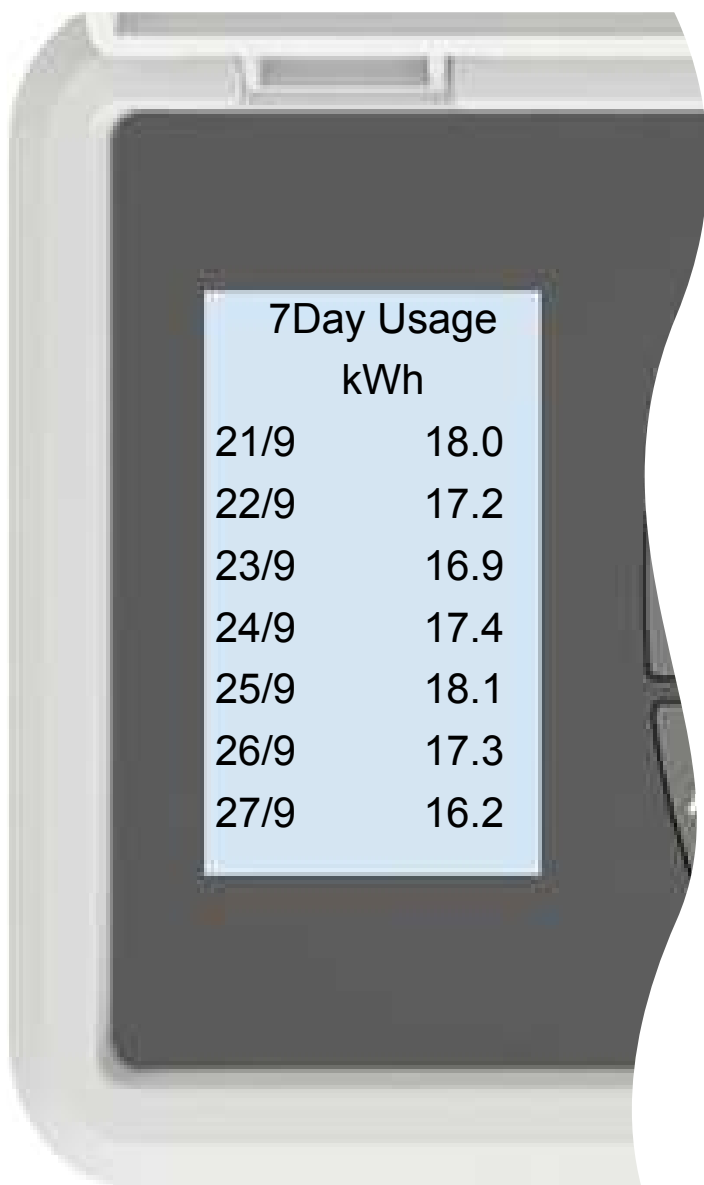


The image shows a handheld device screen with a light blue background. The screen displays the title "Daily runtime." followed by a table of data for the last seven days. The data is presented in a simple two-column format: the first column contains dates in DD/MM format, and the second column contains the runtime in minutes.

Daily runtime.	
21/9	210
22/9	180
23/9	160
24/9	182
25/9	220
26/9	165
27/9	150

History Screen 2

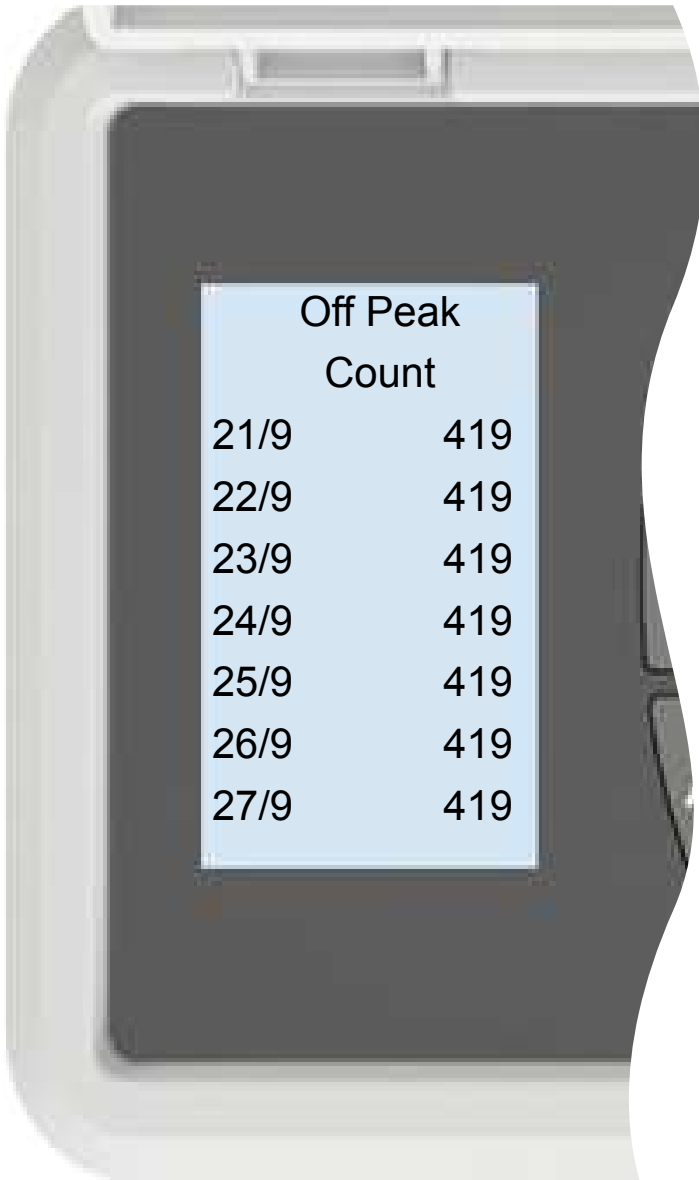
Reports the daily energy usage (kWh) of the off-peak mains supply for the last 7 days.

A smart meter display showing a table of 7-day energy usage. The display is on a dark background with a light blue table. The table has two columns: the first column shows dates from 21/9 to 27/9, and the second column shows energy usage in kWh, ranging from 16.2 to 18.1.

7Day Usage	
kWh	
21/9	18.0
22/9	17.2
23/9	16.9
24/9	17.4
25/9	18.1
26/9	17.3
27/9	16.2

History Screen 3

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



The image shows a smart meter display with a light blue background. The text is centered and reads 'Off Peak Count' at the top. Below this, there are seven rows of data, each representing a day from 21/9 to 27/9. Each row shows a date followed by the number 419, indicating the minutes of off-peak electricity supply available for that day.

Off Peak Count	
21/9	419
22/9	419
23/9	419
24/9	419
25/9	419
26/9	419
27/9	419

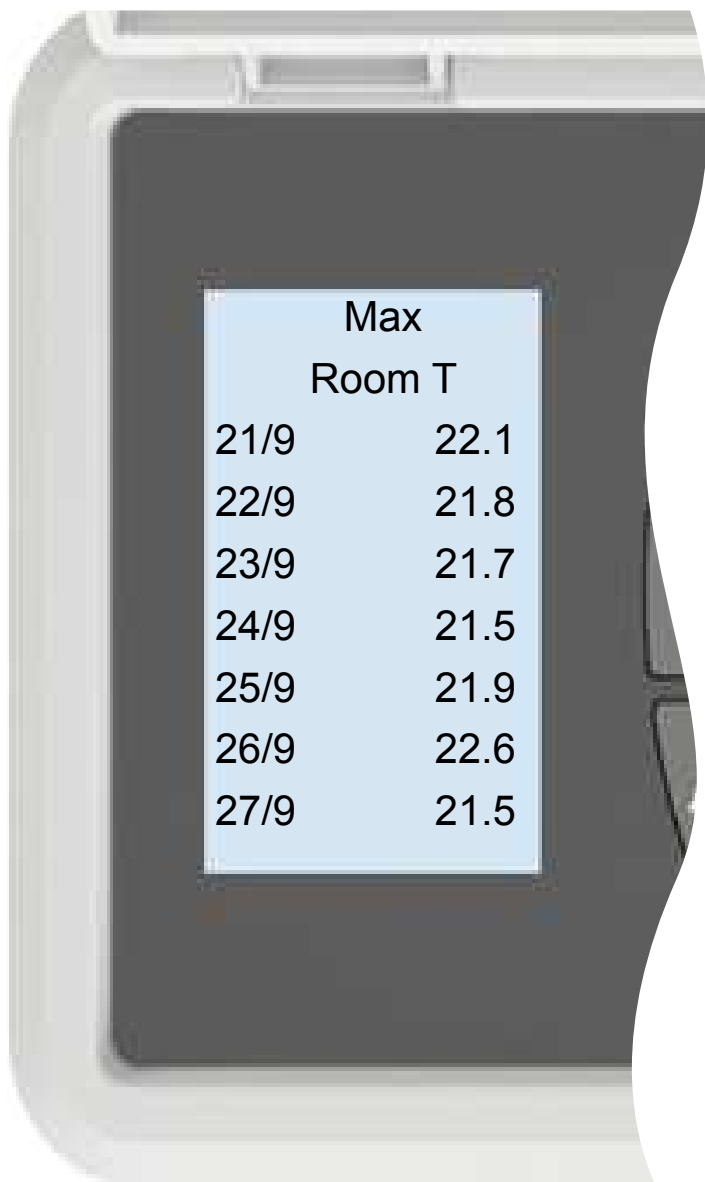
History Screen 4

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

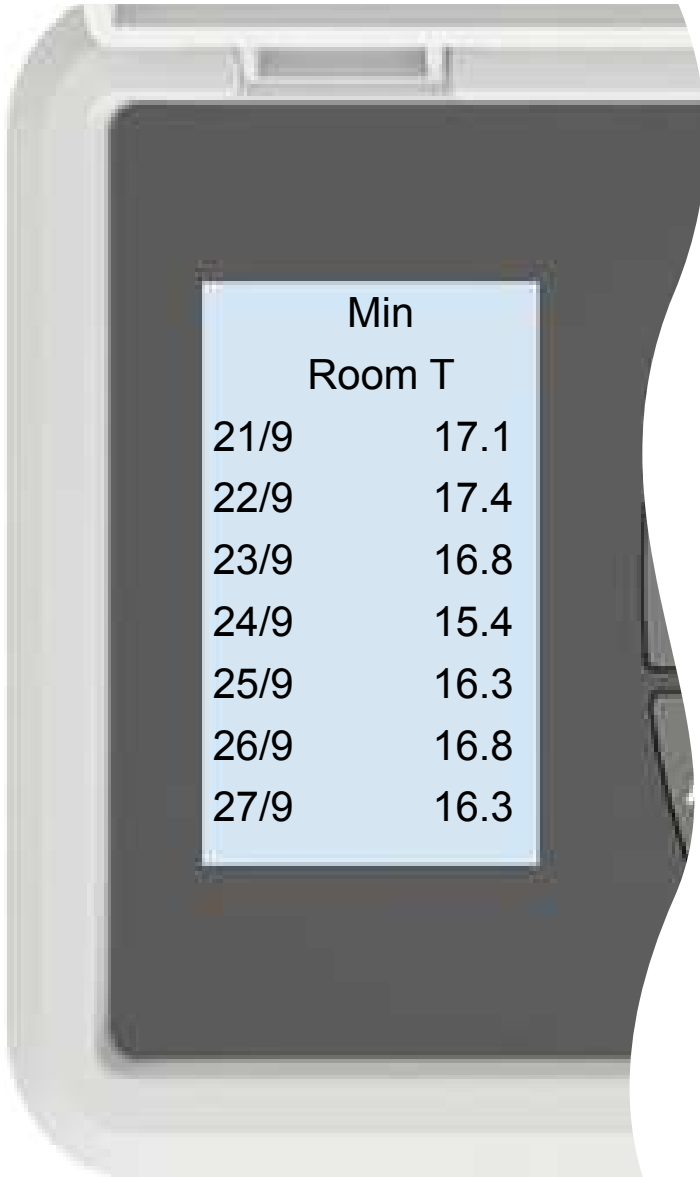
Reports the maximum daily room sensor temperature (°C) for the last 7 days.



Max Room T	
21/9	22.1
22/9	21.8
23/9	21.7
24/9	21.5
25/9	21.9
26/9	22.6
27/9	21.5

History Screen 6

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

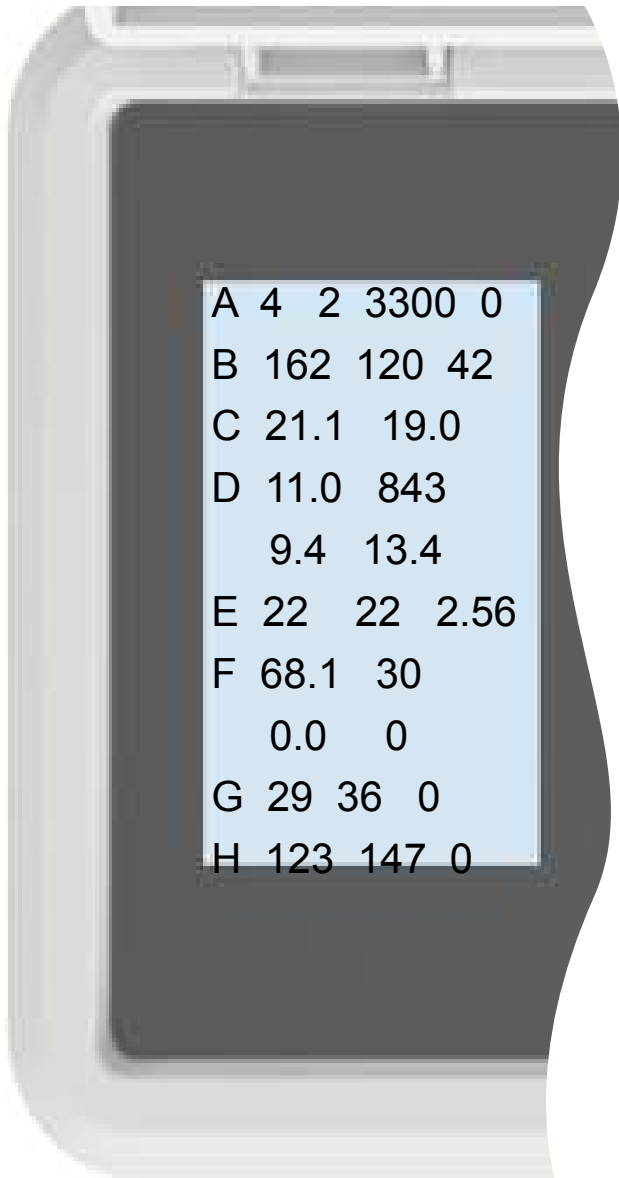


The image shows a handheld device screen with a light blue background. The screen displays a table with two columns: the first column shows dates from 21/9 to 27/9, and the second column shows minimum room temperatures in degrees Celsius. The table is titled 'Min Room T'.

Min Room T	
21/9	17.1
22/9	17.4
23/9	16.8
24/9	15.4
25/9	16.3
26/9	16.8
27/9	16.3

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).

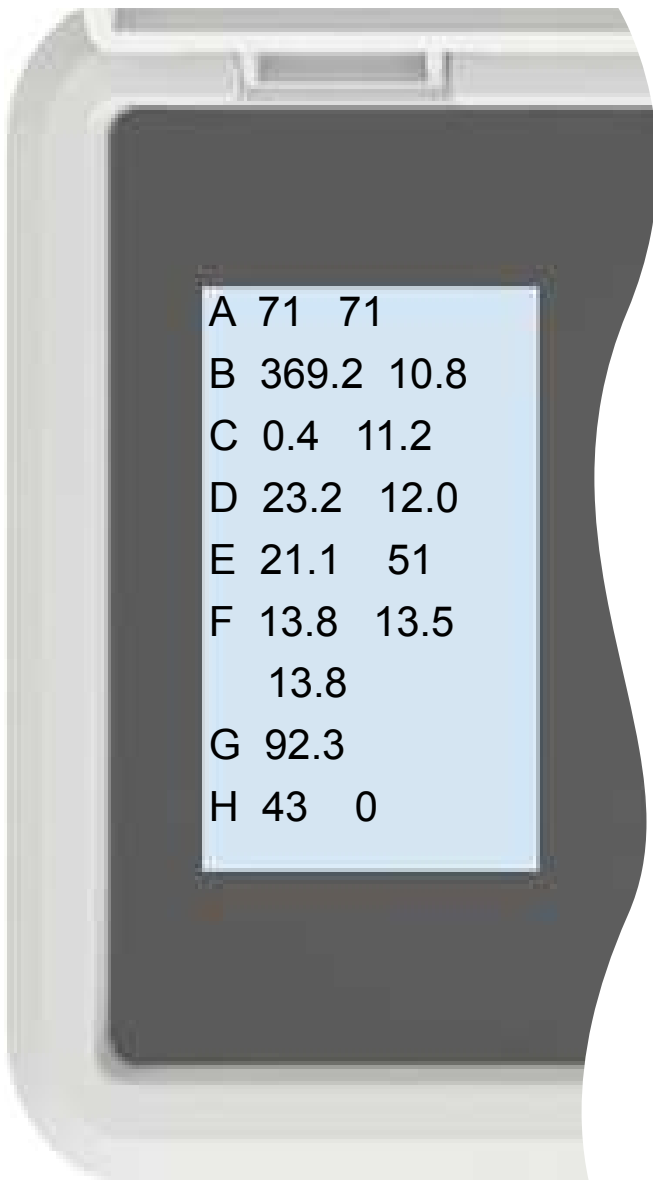
Line B: 1st value: Calculated brick temp 1 (°C)
2nd value: Brick temp to stored energy 2 (kWh)

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: Adjusted residual at 00.00 (kWh)
3rd value: Residual energy at 12:00 (kWh)



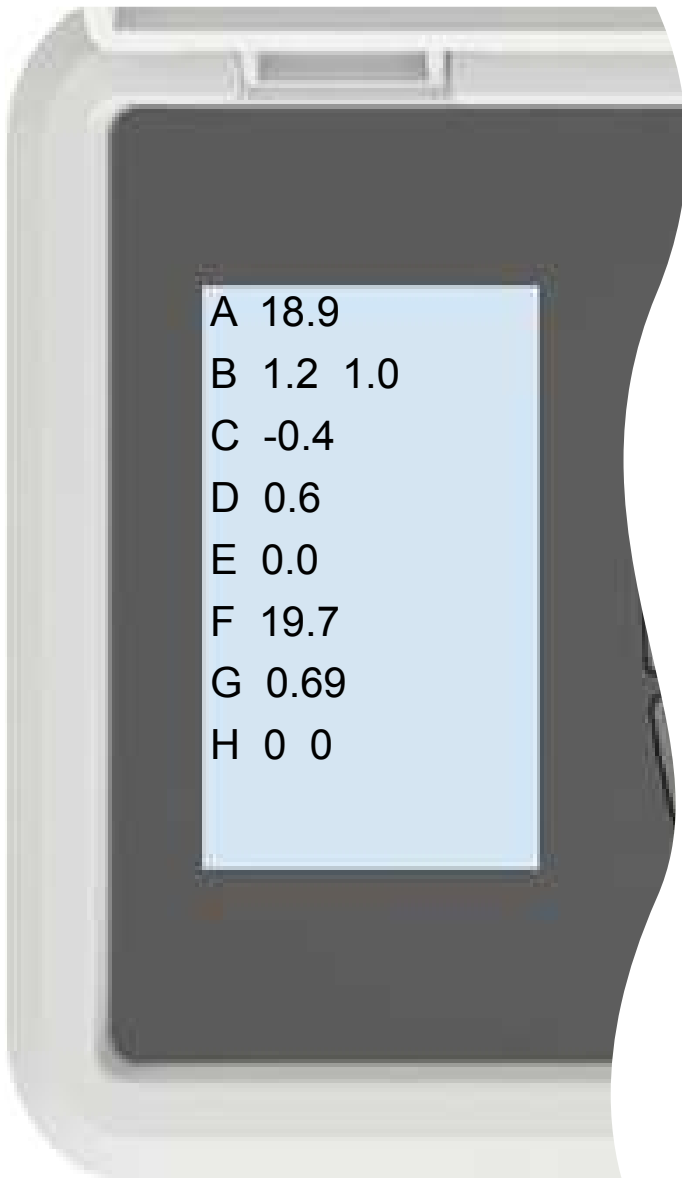
A	71	71
B	369.2	10.8
C	0.4	11.2
D	23.2	12.0
E	21.1	51
F	13.8	13.5
	13.8	
G	92.3	
H	43	0

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)

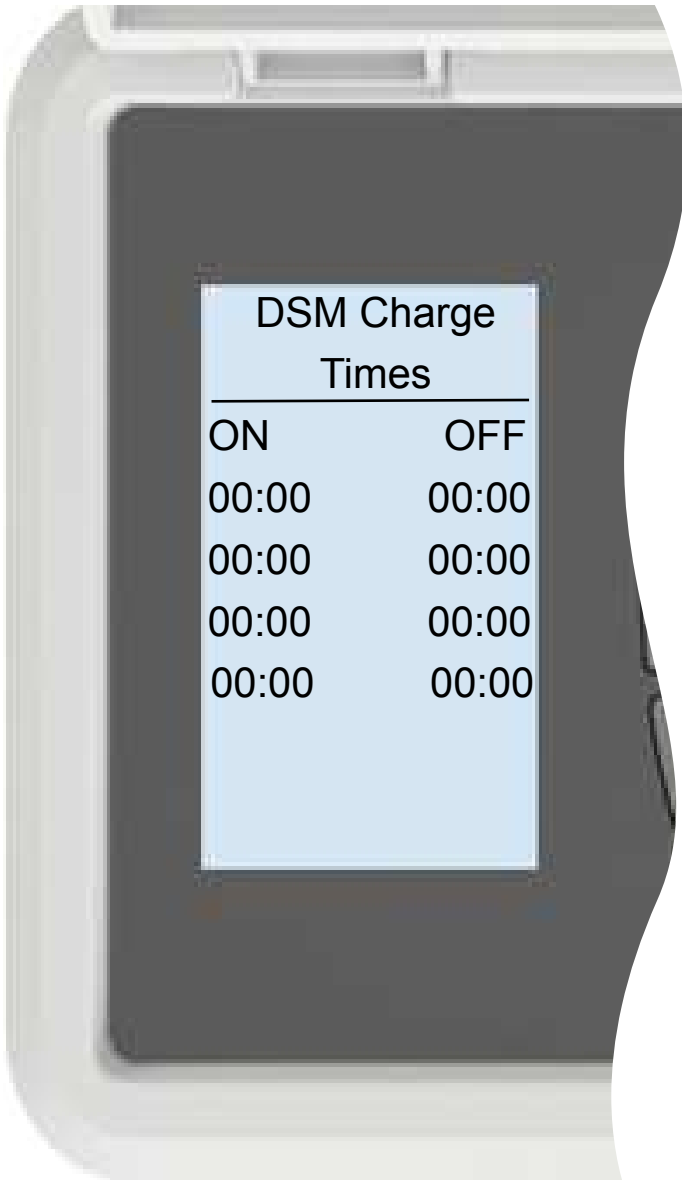
Line F: 1st value: Adjusted room temp (°C)

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)

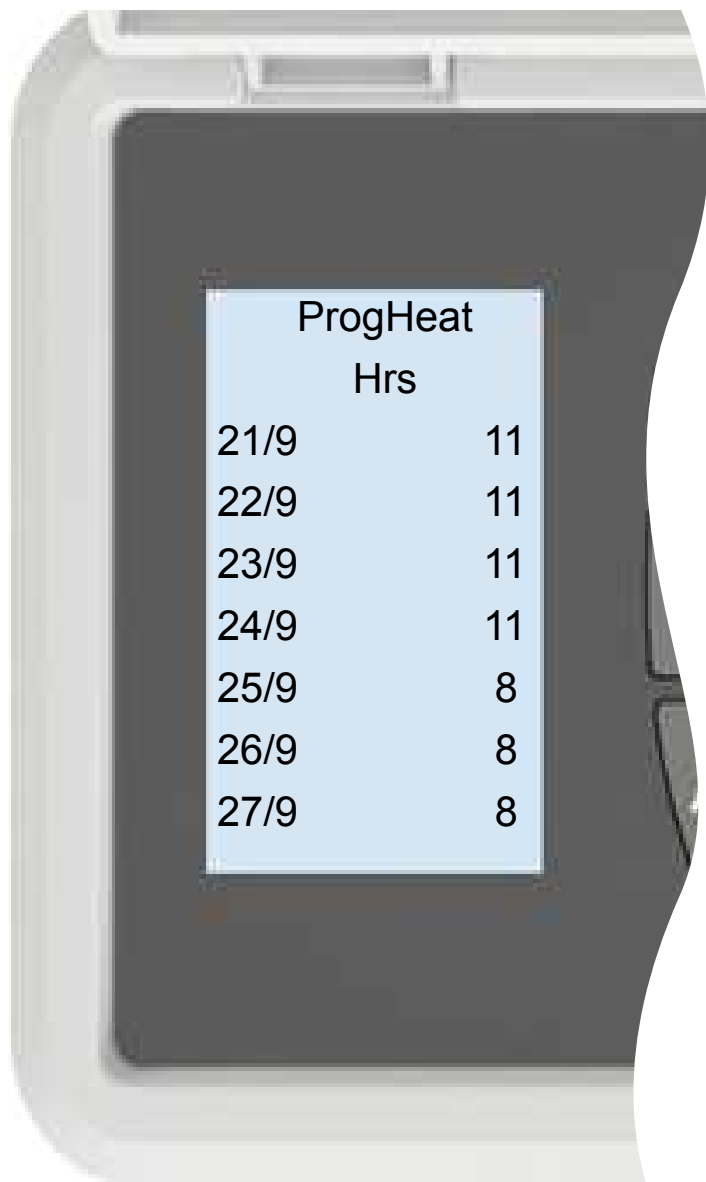
History Screen 7

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.

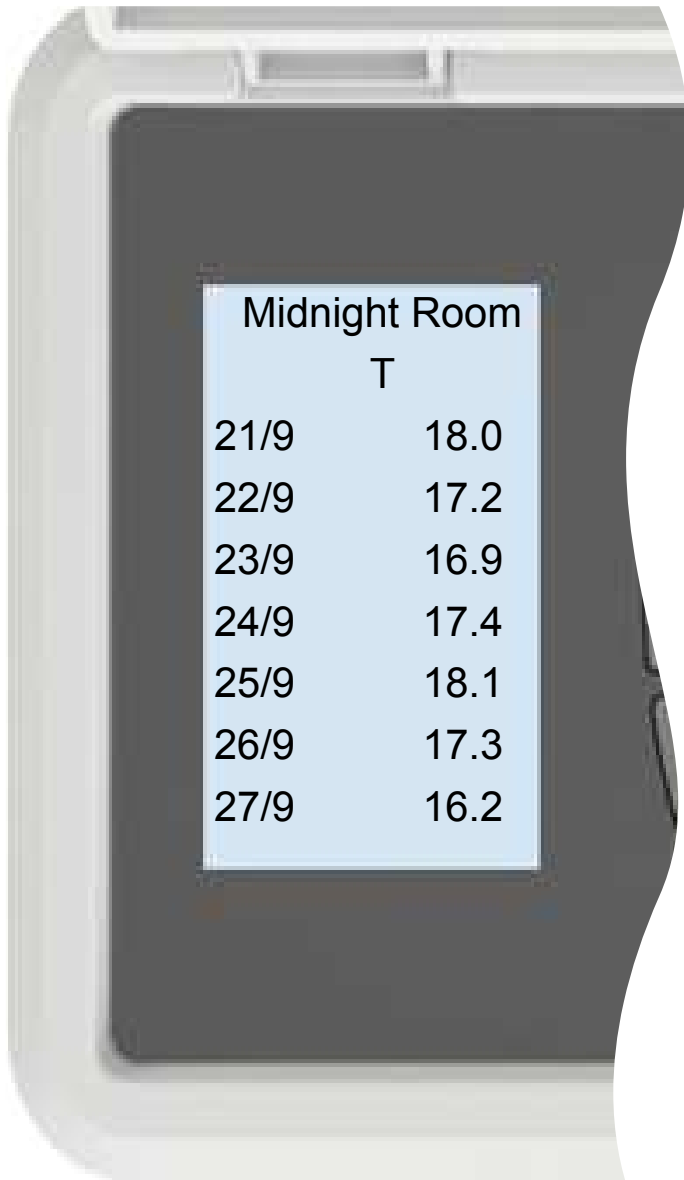


The image shows a grey thermostat with a screen displaying the 'History Screen 8'. The screen shows a table of programmed heating hours for the last 7 days. The data is as follows:

ProgHeat	
Hrs	
21/9	11
22/9	11
23/9	11
24/9	11
25/9	8
26/9	8
27/9	8

History Screen 9

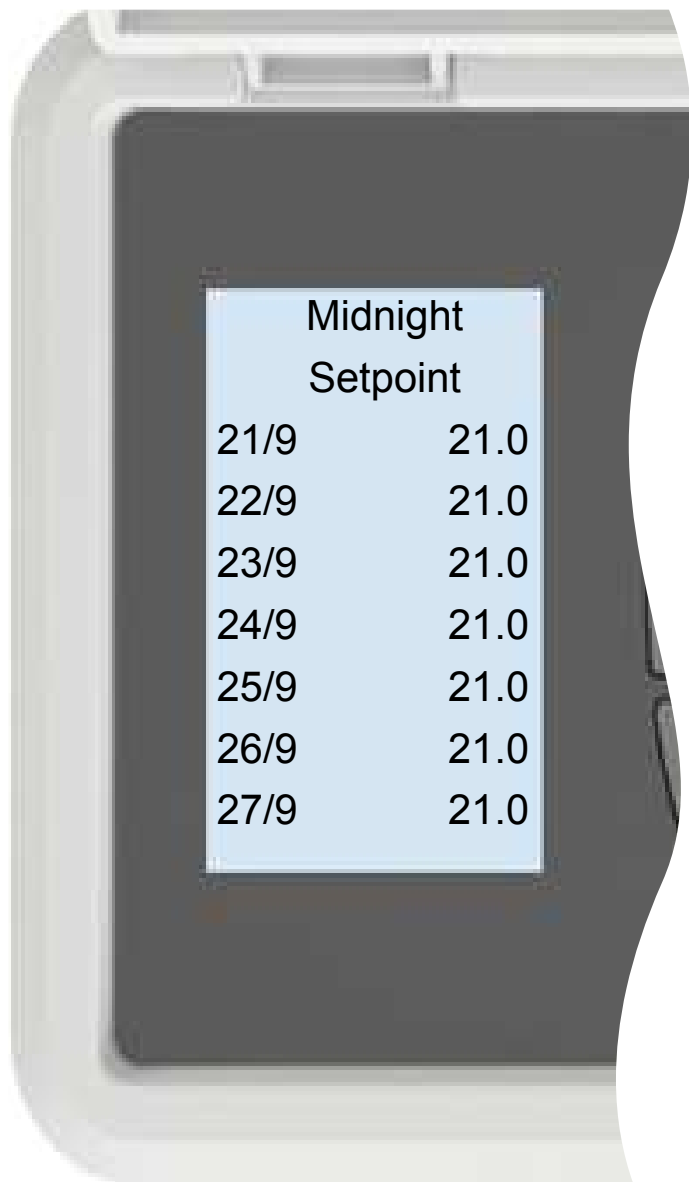
Reports the room sensor temperature at midnight (°C) for the last 7 days.



Midnight Room	
	T
21/9	18.0
22/9	17.2
23/9	16.9
24/9	17.4
25/9	18.1
26/9	17.3
27/9	16.2

History Screen 10

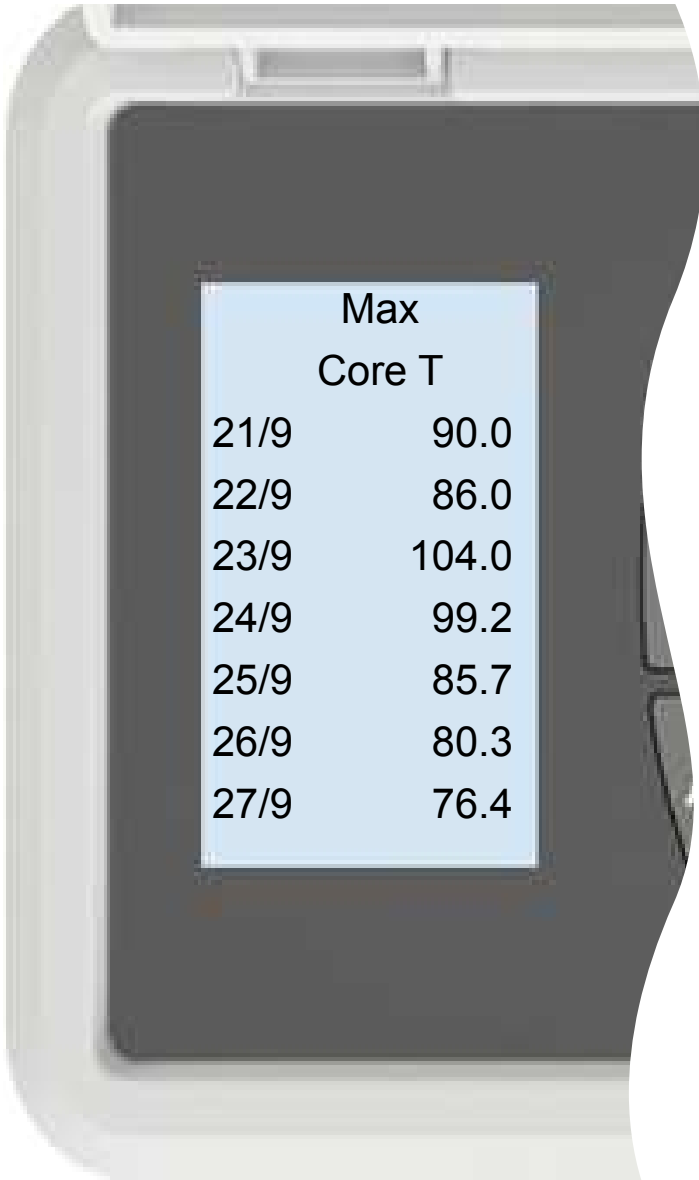
Reports the room temperature setpoint at midnight (°C) for the last 7 days.



Midnight Setpoint	
21/9	21.0
22/9	21.0
23/9	21.0
24/9	21.0
25/9	21.0
26/9	21.0
27/9	21.0

History Screen 11

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

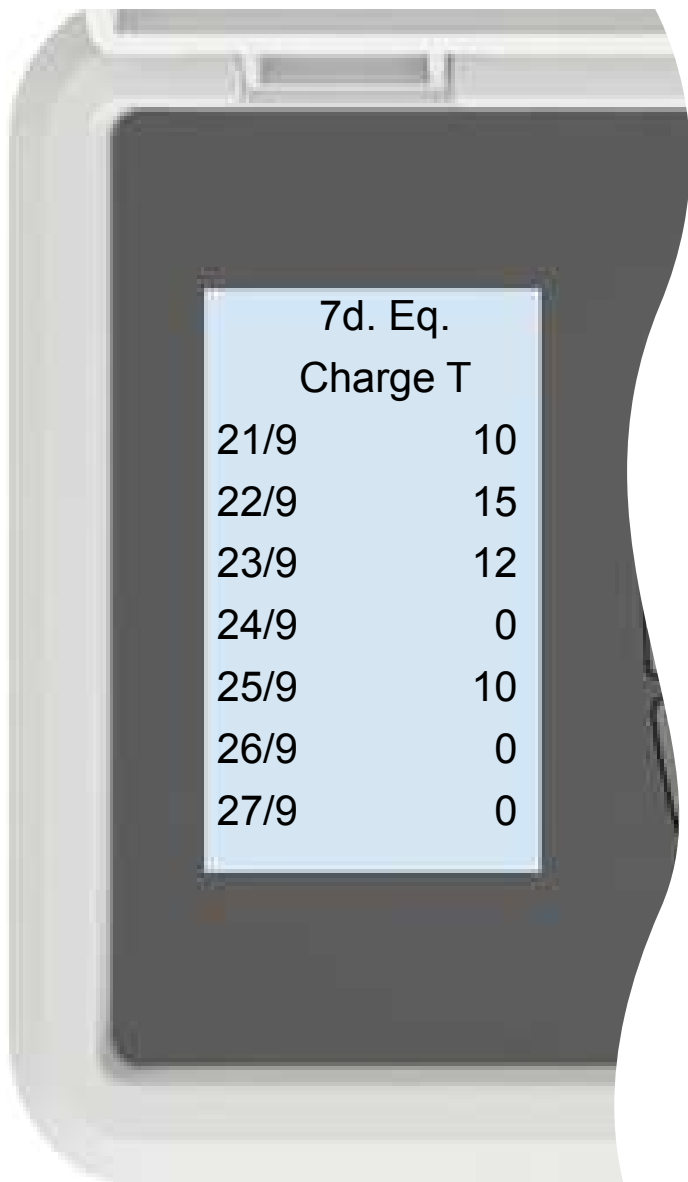


The image shows a medical device screen with a light blue background. The screen displays a table titled "Max Core T" with two columns: the first column shows dates from 21/9 to 27/9, and the second column shows corresponding temperature values in degrees Celsius. The values are 90.0, 86.0, 104.0, 99.2, 85.7, 80.3, and 76.4 respectively.

Max Core T	
21/9	90.0
22/9	86.0
23/9	104.0
24/9	99.2
25/9	85.7
26/9	80.3
27/9	76.4

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.



7d. Eq. Charge T	
21/9	10
22/9	15
23/9	12
24/9	0
25/9	10
26/9	0
27/9	0