

Ice Star ISQ panel user manual

- Process displays functions
- Starting processes and changing parameters in ISQ process display

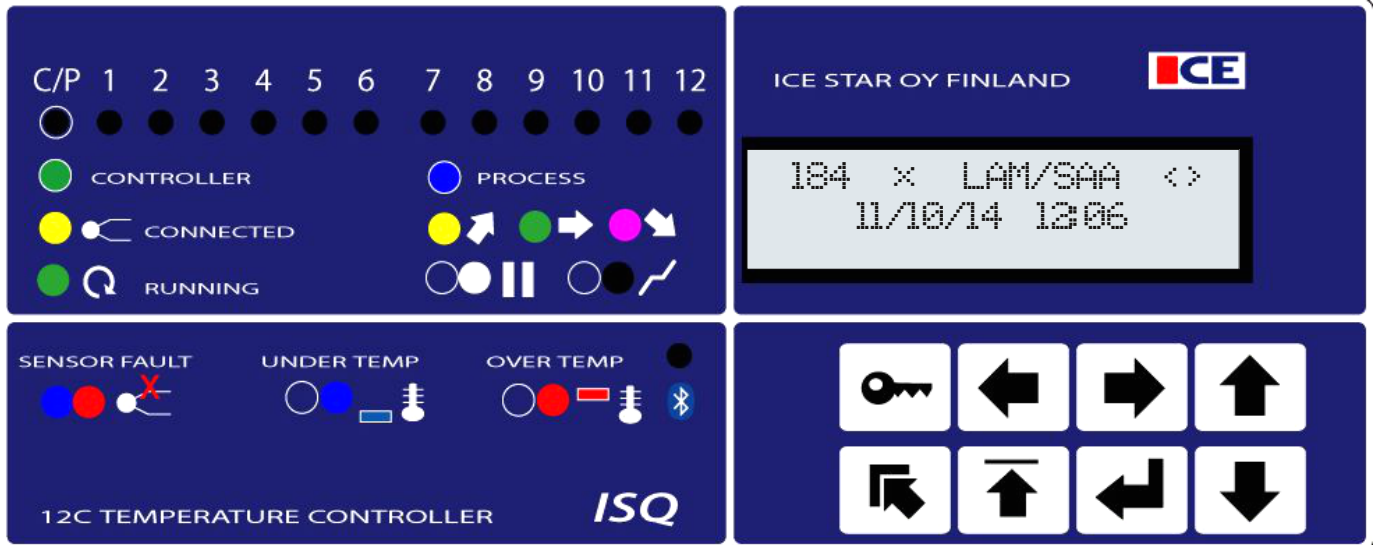
ISDOK:

ISQ_EN_V20

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ISQ Front panel functions



Leds



This led is only shining with 12 channel controller
When light is green, the led shows all 12 channels status at once



Sensor connected



Sensor connected, Process running



This led is only shining with 12 channel controller.
When light is blue, the led shows all 12 processes status at once



Process phase: Heating



Process phase: Hold



Process phase: Cooling



Process phase: Process on pause



Process phase: Slew rate limited



Sensor fault, no temperature.
If all sensors in process are faulty, the process led also blinks blue/red.



Under temperature.
If all sensors in process are under temperature, the process led also blinks blue/red.



Over temperature.
If all sensors in process are over temperature, the process led also blinks blue/red.

Keyboard



Settings



Browse down



Browse left



Back to main menu



Browse right



One step back



Browse up



Enter

Main menu

```
184 x PRO/TC <>
11/10/14 1206
```

From ISQs main menu can the date and klock be edited.

Changes to date and klock can only med done when processes are not running

Press "Settings" button and browse with "Down" button to "Set time", press "Enter" and edit the time and date with arrow buttons. When ready, press enter. After editing the displays goes back to main menu.

When connecting ISQ to PC the date and time automatically updates to the PCs date and time. ISQ remembers the PCs date and time for 2 weeks without connection.

If sensors are connected, main menu also browses through the sensors.

Marked in display: C1-12. temperature, power

Adding a process instruction the ISQs memory

With ISPort pc program the insturction as added to the ISQ. By Uploading the instruction in ISPort it will automatically move to ISQs memory, to the ISQs that has connection open.

To ISQs memory fits max 17 process instructions. From ISPort you can choose to witch memory place it will be uploaded to.

Starting a process

From ISQs panel can heating be started.

By pressing "Settings" in main menu and then browsing with down key to "Start heating" and then press Enter
Browse through uploaded heatings with down and up buttons, choose wanted process with press Enter

At this phase you'll see the processes info by browsing with down and up button.

The phases are:

ID

Controllers x3 (x3 means how many controllers are connected to the process)

Start Heating?

By pressing "Enter" in Controllers phase, press enter to edit how many and witch controller is needed.

Browse through controllers with Left and Right button.

Choose controller with Up button and delete with Down button

Controllers chosen to process, are marked with a star (*).

By pressing Enter the changes are activated.

Start the process by pressing Enter at "Start Heating?"

When process is running the display shows all connected sensors and all running heatings

Sensor connected

```
C1          24 °C 0%
```

C1 = Controllers number
24°C 0% = Controllers temperature and power

Sensor connected, process running

```
C1 > P1    24 °C 5%  
-2°C 50 °C/H 0A
```

C1 > P1 = Controller number 1 is connected to heating 1
24°C 5% = Controllers temperature and power
-2°C 50°C/h = Controllers error and slew rate
0A = Controllers current

Process info 1

```
P1↑ TEST3   24 °C  
-2°C 5%
```

P1 = Process number, arrow means what phase heating is in
TEST3 = Process ID
24°C = Avarage temperature of all controllers in process / process temperature
-2°C 5% = Avarage error and power of all controllers in procesa / process error and temperature

Process info 2

```
P1↑ TEST3   24 °C  
30 °C/H » 150 °C
```

P1 = Process number, phase arrow
TEST3 = Process ID
24°C = Same as earlier
30°C/h » 150°C = Process set heating/cooling rate and hold temperature

Starting the next process

Go back to main menu with "Main menu" button, then press "Settings" button.
Repeat same as when starting first process.

Running processes are marked with brackets, ex. " (1) TEST3".

Editing process parameters

Running process parameters can be altered, process can be stopped, set process to pause or move to next process phase

When Process info 1 or 2 is visible in the display, using "Settings" button menu of settings opens.

1 Pause

Press "Enter" to pause or continue process if paused.

2 Next phase

The process goes to the next phase, when pressing Enter

3 Stop

Stops this running process, when pressing Enter

4 Hold Temp. 150°c

Press Enter to edit hold temp. with arrow buttons, accept change with Enter

5 Heating rate 30°c/h

Press Enter to edit heating rate with arrow buttons, accept changes with Enter

6 Cooling rate 50°c/h

Press Enter to edit cooling rate with arrow buttons, accept changes with Enter

7 Hold Time 60m

Press Enter to edit heating rate with arrow buttons, accept changes with Enter

8 Controllers x3

Press Enter to edit process controllers.
Controllers marked with star (*), are connected to this process.
Accept changes with Enter