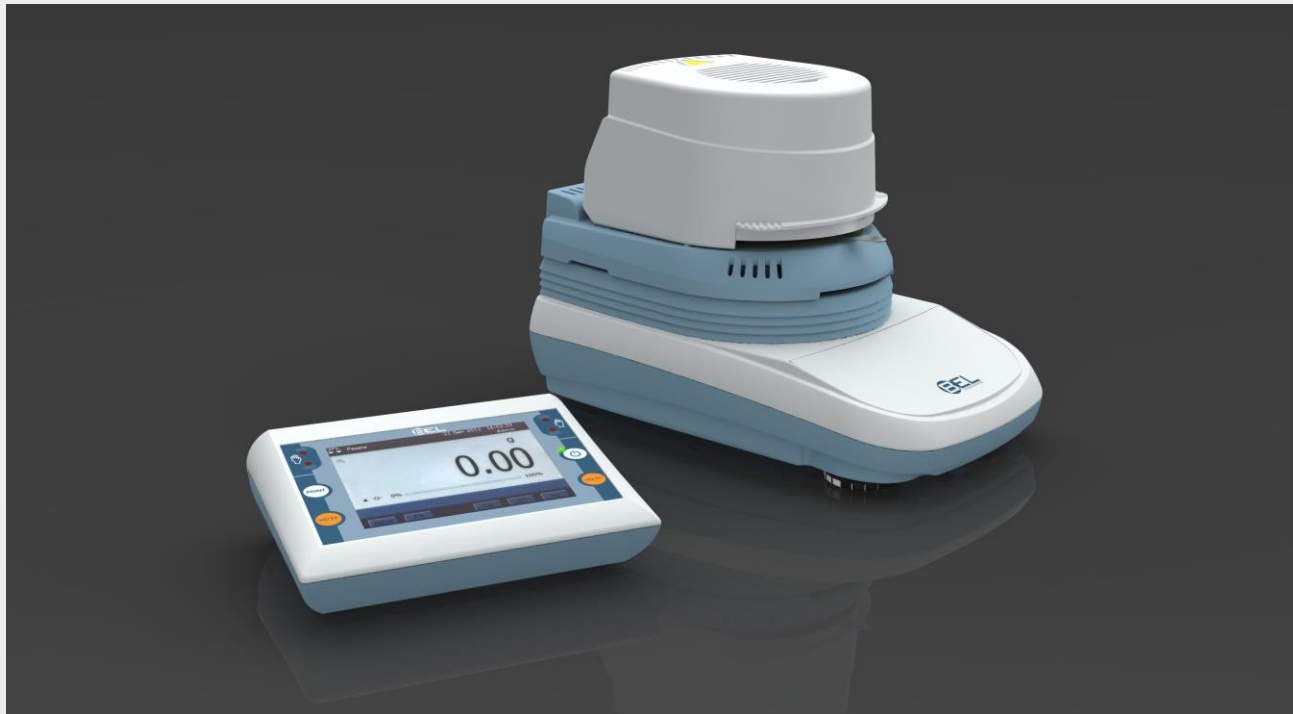


iThermo Touch 163

- New ithermo balance




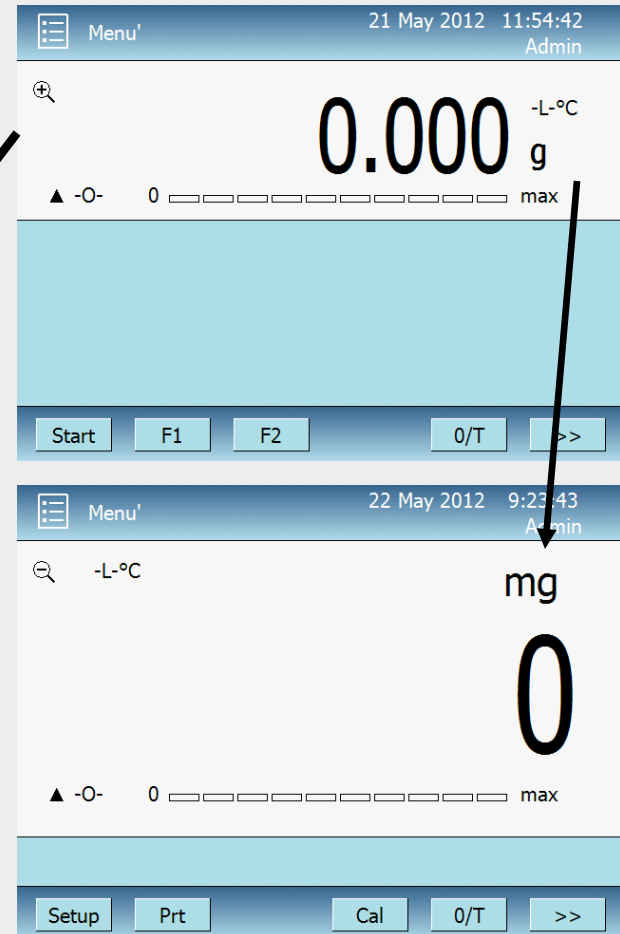
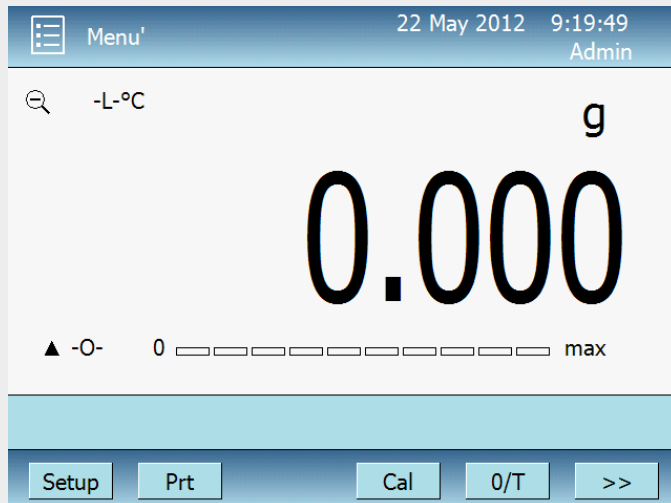
The most efficient moisture content determination

The screenshots illustrate the following steps in the moisture content determination process:

- Top Left:** Initial weighing screen showing 0.000 g. The interface includes a search icon, a scale reading, and a progress bar. Buttons for 'Start', 'F1', 'F2', '0/T', and '>>' are visible.
- Top Middle:** 'Measure' configuration screen. Parameters include: Start, Temperature profile (Std 35°C), Drying end (10 min), Preheating (Off), Nominal Weight (Off), and Result (% M).
- Top Right:** 'View' window showing the test profile: Ramp 100°C - 5 min, Time 10 min, Preheating: Off, Result: Moisture (%M), and Sample Weight (min. / nom. / max.): 1.800 g 2.000 g 2.100 g.
- Middle Left:** Weighing screen for 'FARINA' showing 2.988 g. A progress bar indicates the weight is between 2.800 g and 3.200 g. A message says 'Load the sample and close the heater.' Buttons for 'Esc' and '0/T' are present.
- Middle Middle:** Graph showing moisture content (% M) vs. time (t = 9'52"). The temperature is 157°C and the moisture content is 99.16%.
- Middle Right:** Final result screen showing 4.83% M. A graph shows the moisture content vs. time (t = 1'24"). Buttons for 'Esc', 'Graph', and 'Stop' are visible.
- Bottom Left:** A timer dialog box showing '0 ... 30 s' and a numeric keypad with 'OK' and 'C' buttons.
- Bottom Middle:** 'New' sample entry screen with a text field containing 'mark' and a QWERTY keyboard layout.
- Bottom Right:** 'FLOUR' configuration screen. Parameters include: Description (TYPE 00), Temperature profile (Standard 115°C), Drying end (Autostop absolute 1mg / 25 s), and Preheating (On).

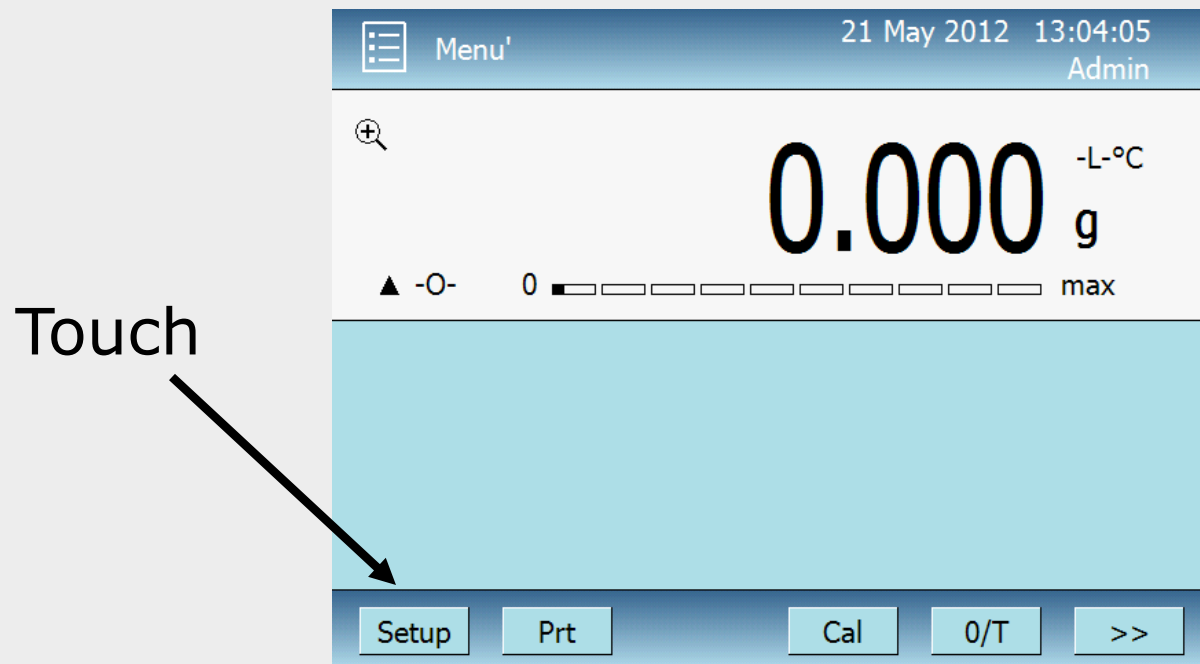
Fast access

- Touch on  to enlarge weight indication
- Touch on "g" to change units

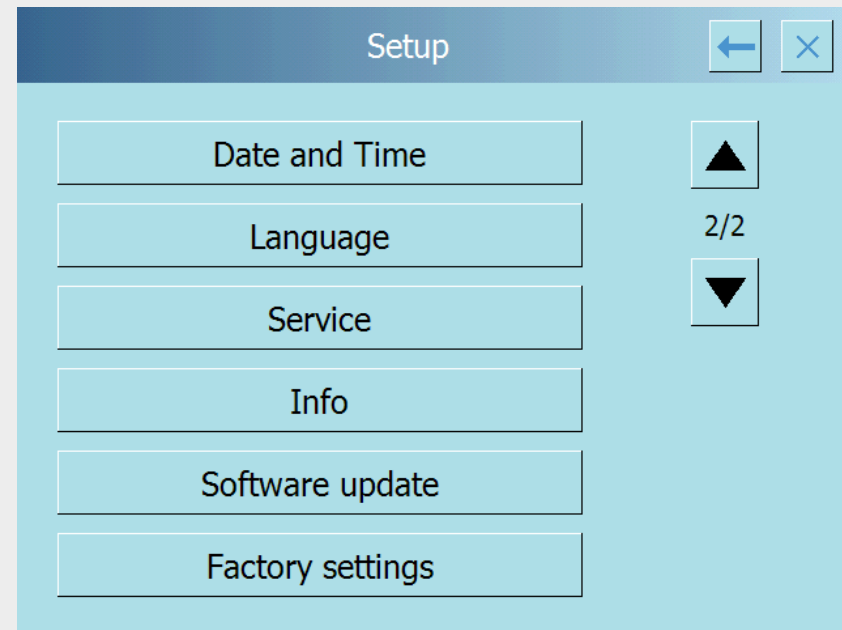
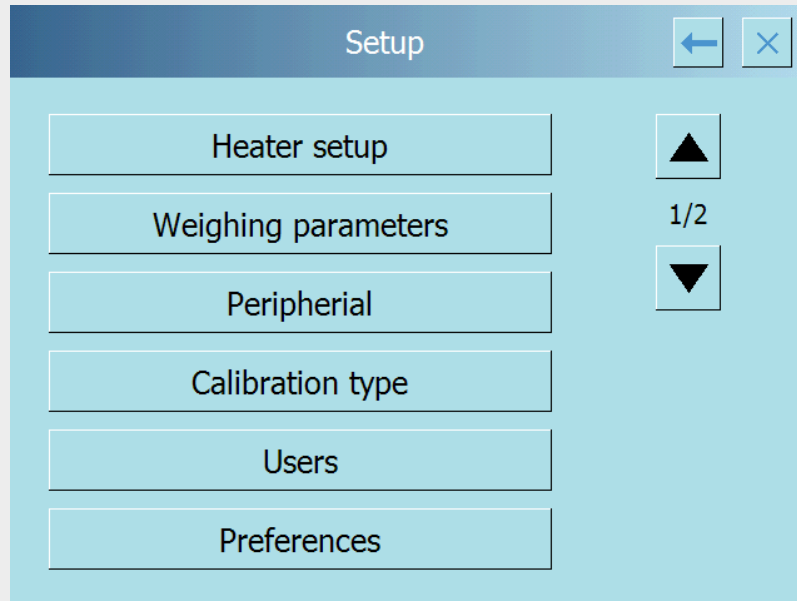


Setup parameters

- Immediate access to settings menu



Setup menu

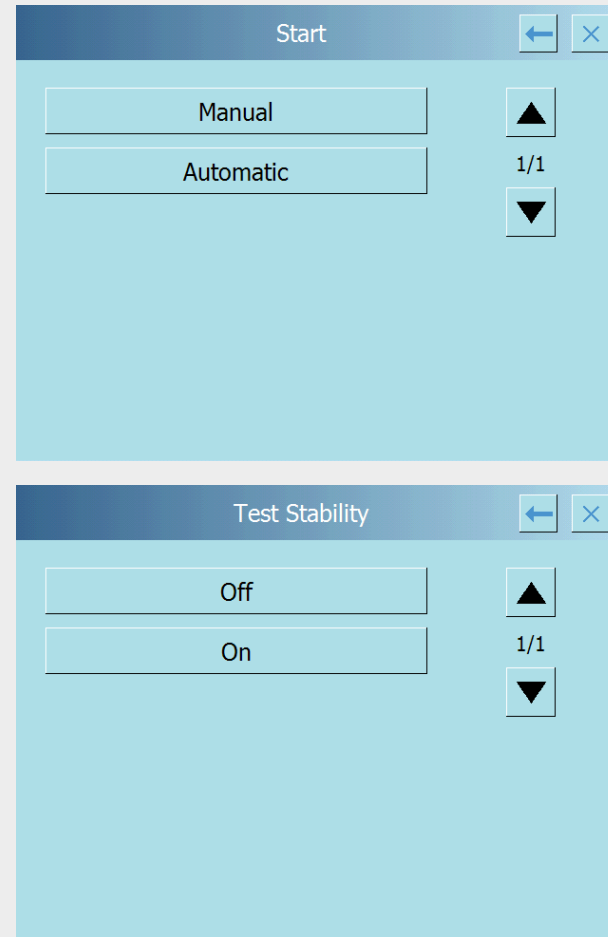


Heater setup

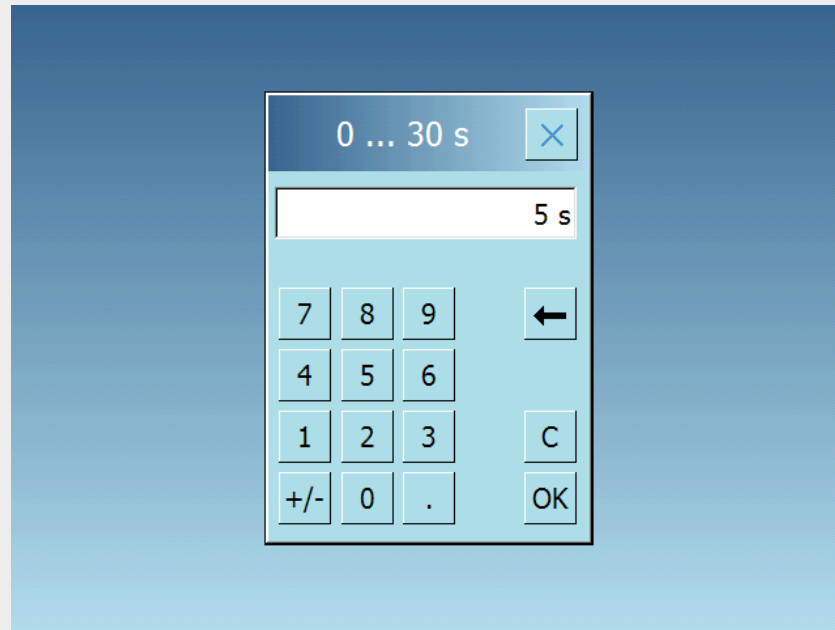
Heater setup			←	×
Standby temp.	Off	▲		
Start	Automatic	1/1		
Start Delay	0 s	▼		
Test Stability	On			
End beep	On			
Temperature adj.				

Mode selector start drying

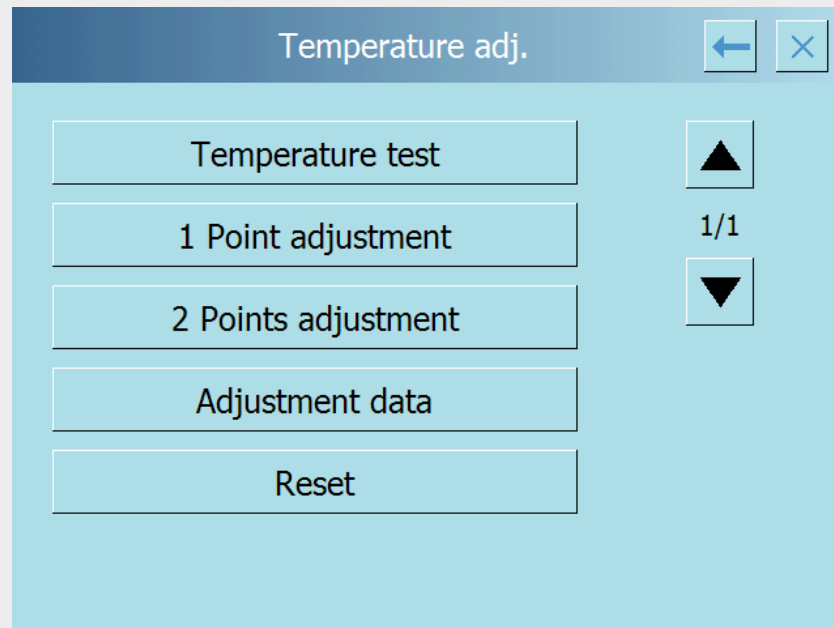
- Manual or automatic
- Stability at the starting



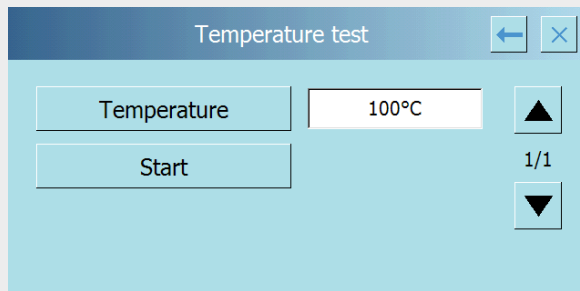
Setting delay start drying



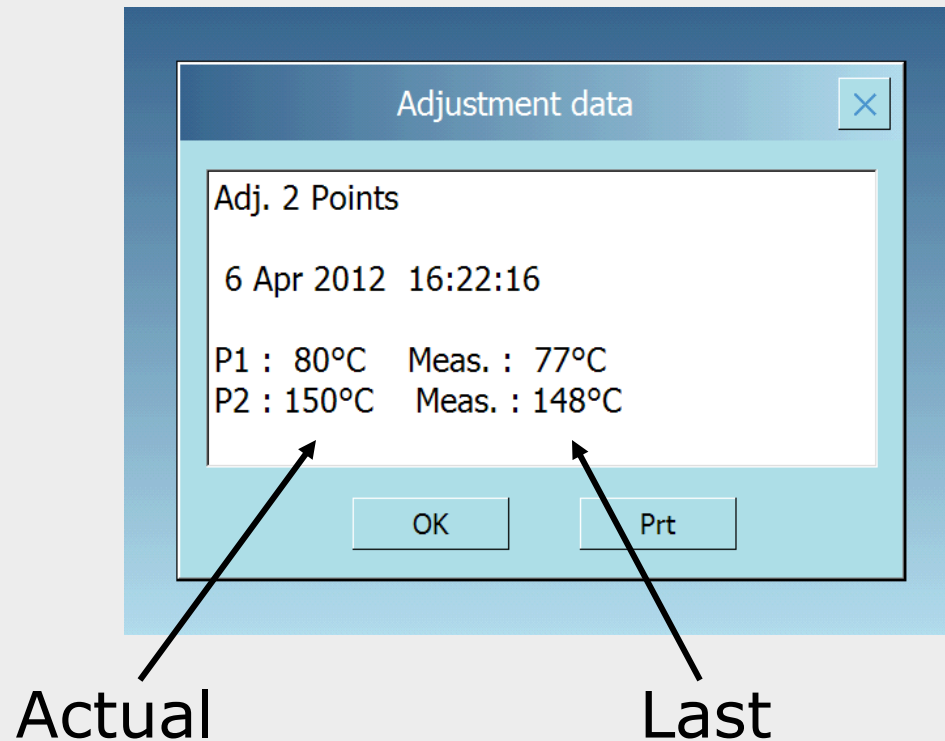
Temperature control of the oven and temperature calibration of the oven







Temperature test of the oven by means of the kit STCi-01



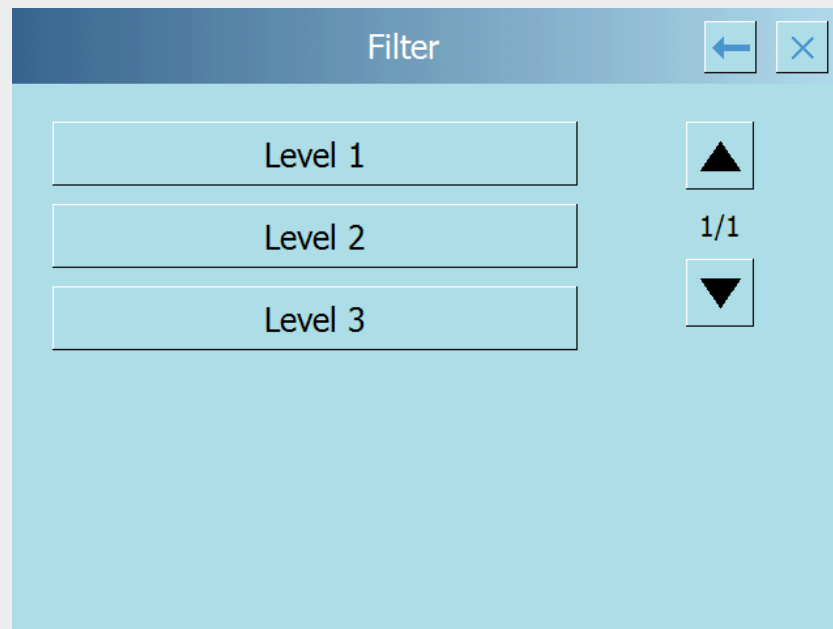
Display values of the oven temperature



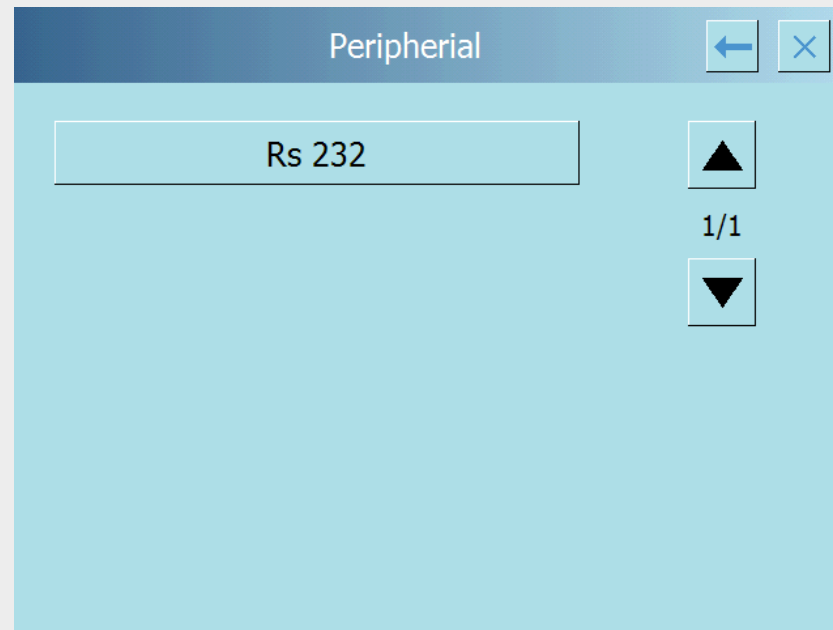
Weighing parameters setting

Weighing parameters				
Units	Grams			
Filter	1	1/1		
Stability	1			
Autozero	Off			

Level filtering setting



Peripherals (PC or Printer) setting



Printer/PC RS232 parameters setting

- Automatic – Manual printing
- Printing at stability
- Info Glp printing
- Heading printing
- Starting-End drying date-time printing

The image displays two screenshots of the 'Rs 232' parameter setting interface. The top screenshot shows the following settings:

Parameter	Value
Mode	Manual Tlp50
Baud rate	38400 Baud
CTS	Off
Stability	Off
Print heading	Off
Line feed	0

The bottom screenshot shows the following settings:

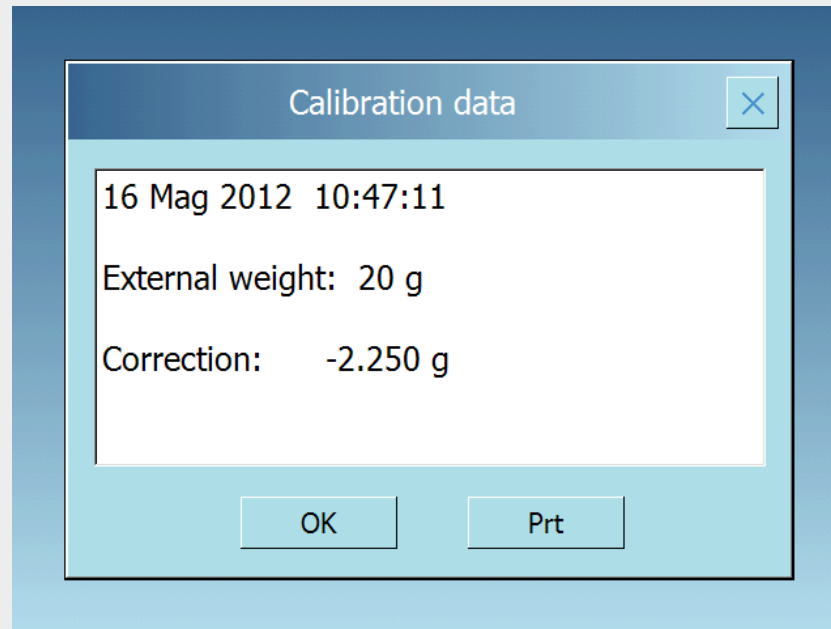
Parameter	Value
GLP	Off
Print time - date	On

Balance calibration procedure

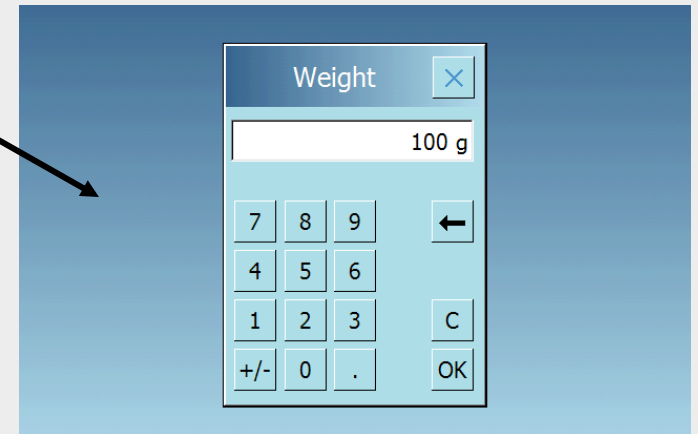
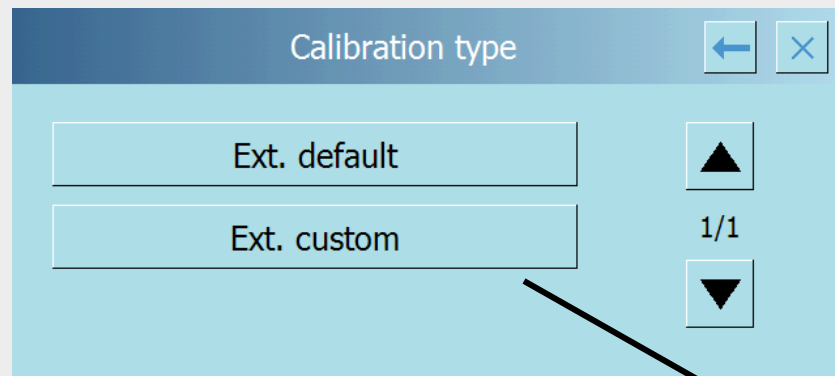
The screenshot shows a software interface for balance calibration. At the top, a dark blue header bar contains the text "Calibration type" and two small icons: a left-pointing arrow and a close symbol (X). Below the header, the interface is organized into three rows. Each row has a label on the left, a value field in the middle, and a control element on the right. The first row has the label "Calibration data" and an upward-pointing triangle icon. The second row has the label "Calibration type", a text box containing "Ext. custom", and the text "1/1". The third row has the label "Weight setup", a text box containing "50 g", and a downward-pointing triangle icon.

Calibration type		←	×
Calibration data		▲	
Calibration type	Ext. custom	1/1	
Weight setup	50 g	▼	

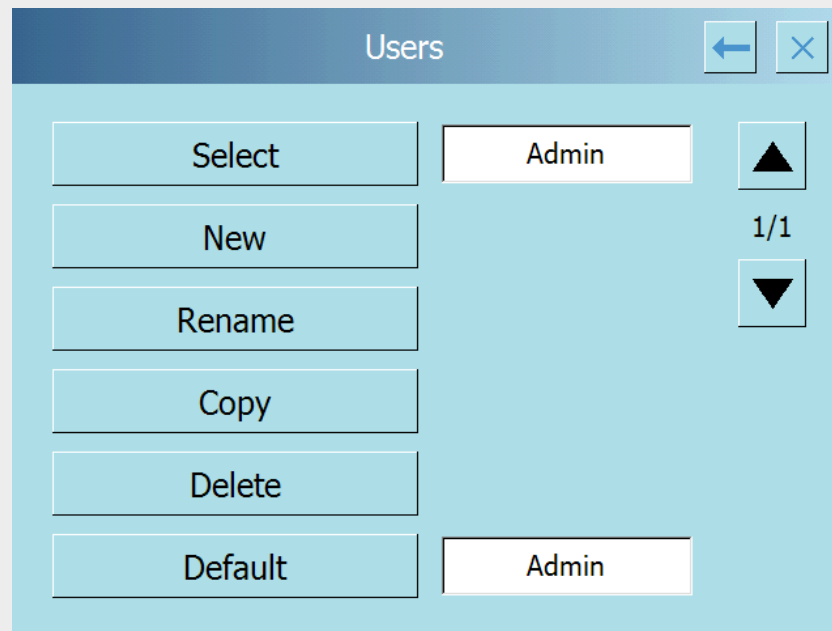
Calibration's data display and printing



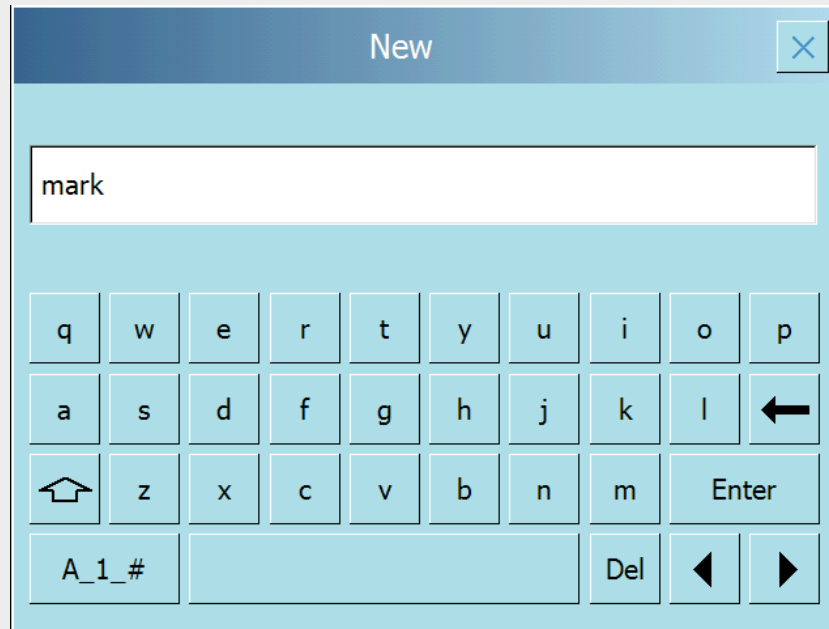
Calibration mode



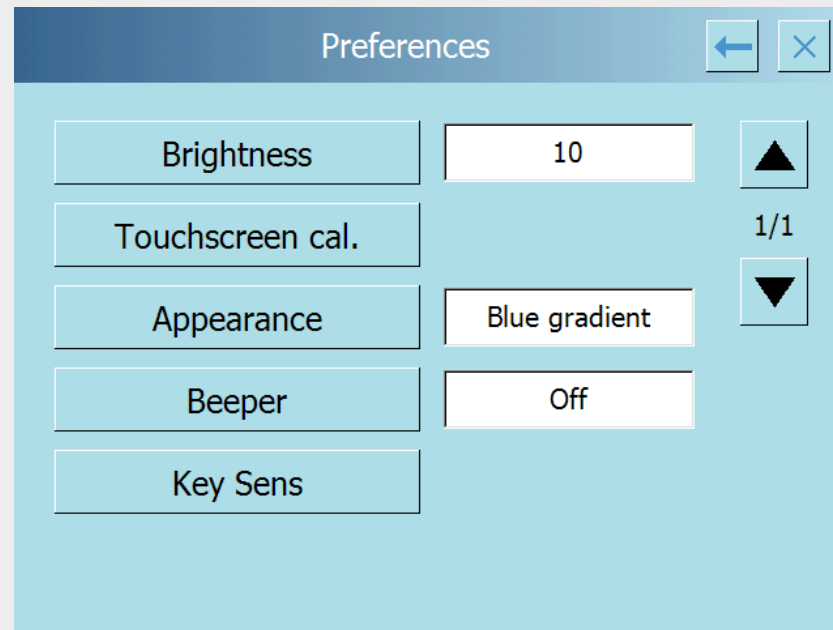
User's menù



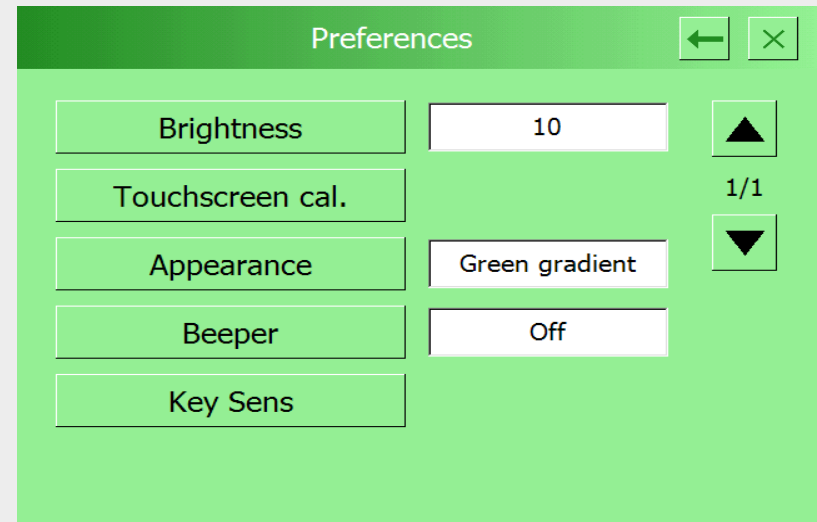
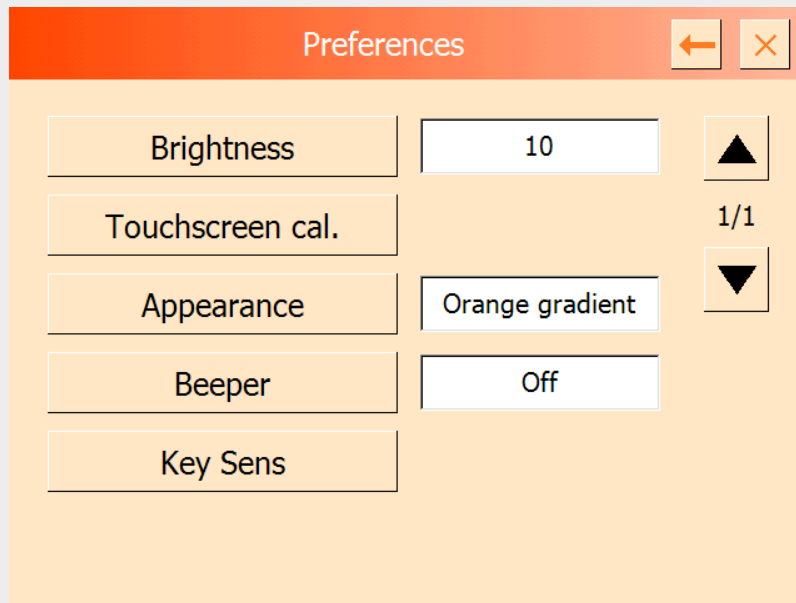
User data setting



Touch screen key sensor parameters setting



Orange gradient/green gradient appearance



Key sensor function setting

Key Sens

Sensitivity	10	▲
LEFT Function	Tare	1/1
RIGHT Function	Disabled	▼



Date-time setting

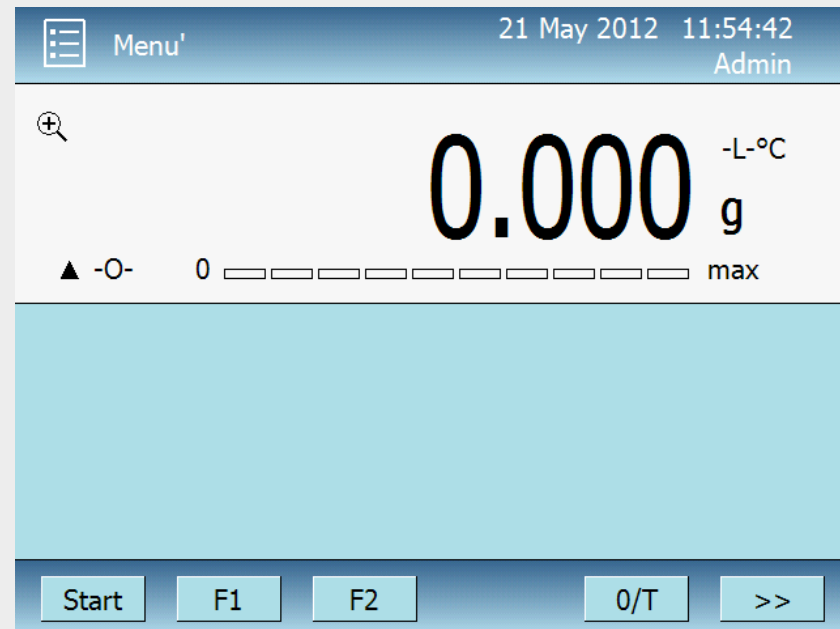
Date and Time		
Date	21 May 2012	▲
Time	11:47:35	1/1
24h - 12h	24 h	▼

Language selection

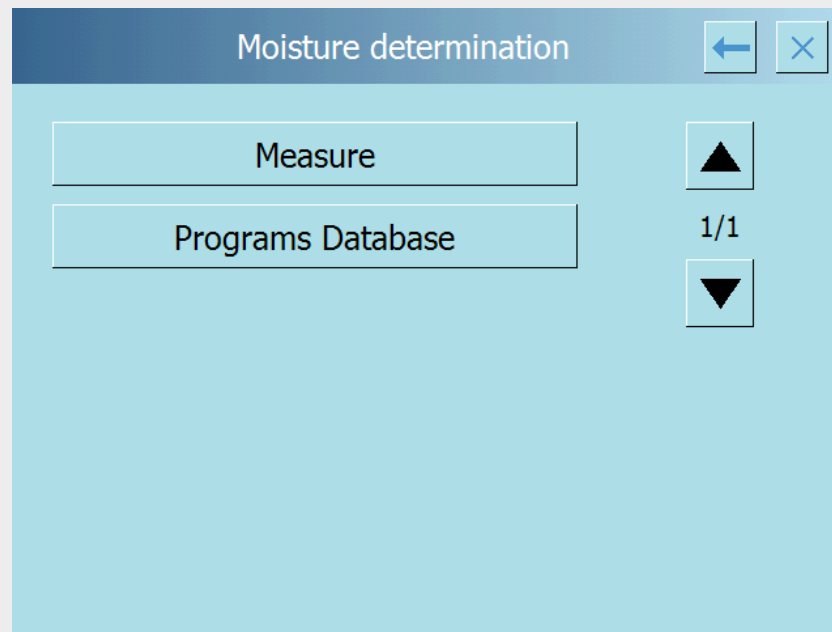


Drying menù

- Push start to enter moisture determination screen.



Program setting manual or from database



Setting parameters for drying

Measure ← ×

Start		▲
Temperature profile	Std 115°C	1/2
Drying end	1mg / 25s	▼
Preheating	On	
Nominal Weight	3.000 g	
Result	% M	

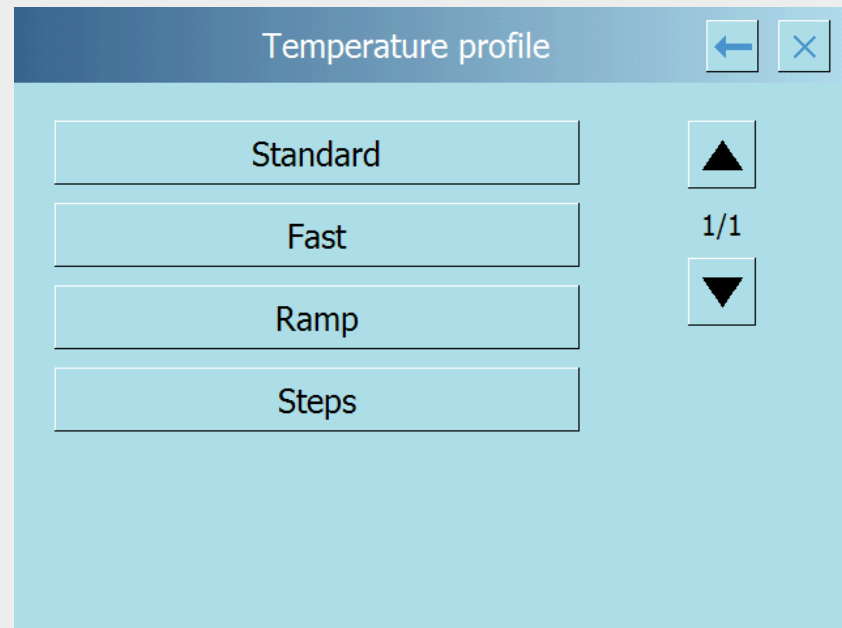
Measure ← ×

View	▲
Last results	2/2
	▼

Drying process

Heating mode

- Standard
- Fast
- Ramp
- Steps max 3



Heating modes parameters setting

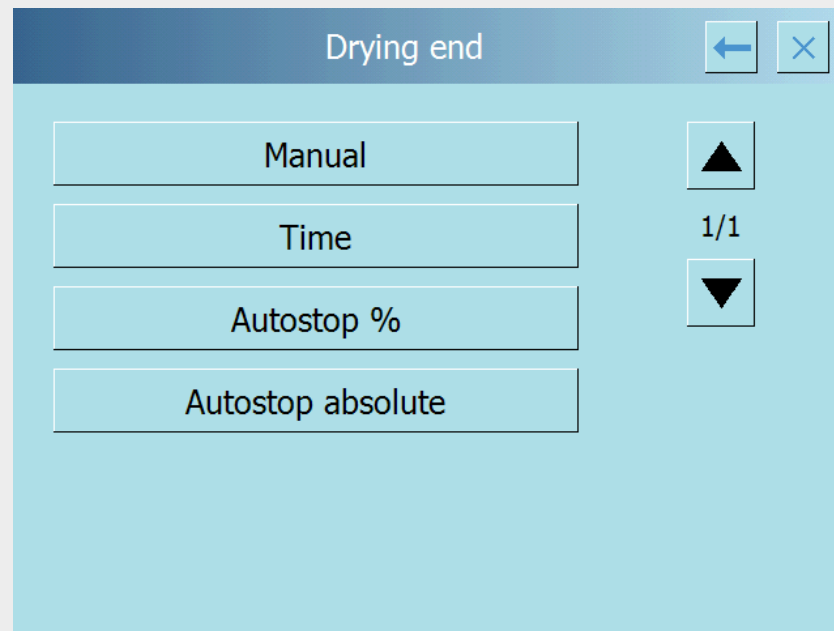
- Ramp mode

The screenshot shows a 'Ramp' mode configuration window. It has a title bar with a back arrow and a close 'X' button. The window contains three rows of controls: 'Temperature' with a value of '35°C' and an up arrow, 'Time' with a value of '1 min' and a '1/1' indicator, and an 'Ok' button. A down arrow is located to the right of the 'Time' row.

- Steps mode

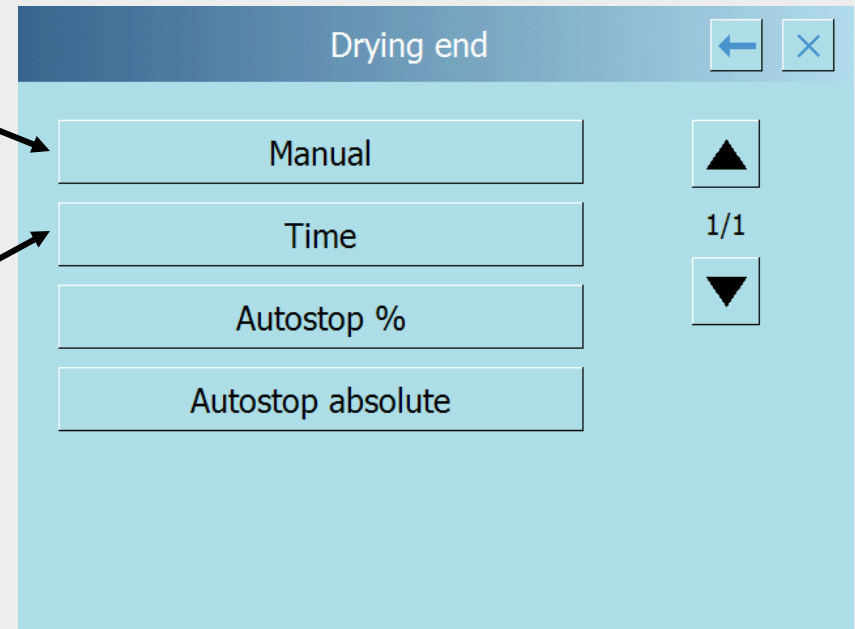
The screenshot shows a 'Steps' mode configuration window. It has a title bar with a back arrow and a close 'X' button. The window contains five rows of controls: 'Level T1' with a value of '35°C' and an up arrow, 'Time t1' with a value of '10 min' and a '1/1' indicator, 'Level T2' with a value of '35°C' and a down arrow, 'Time t2' with a value of '10 min', and 'Level T3' with a value of '35°C'. An 'Ok' button is at the bottom.

Drying end mode



Manual or time setted drying end

- End the drying process any time.
- End the drying process and at setted time.



Autostop drying

Autostop %

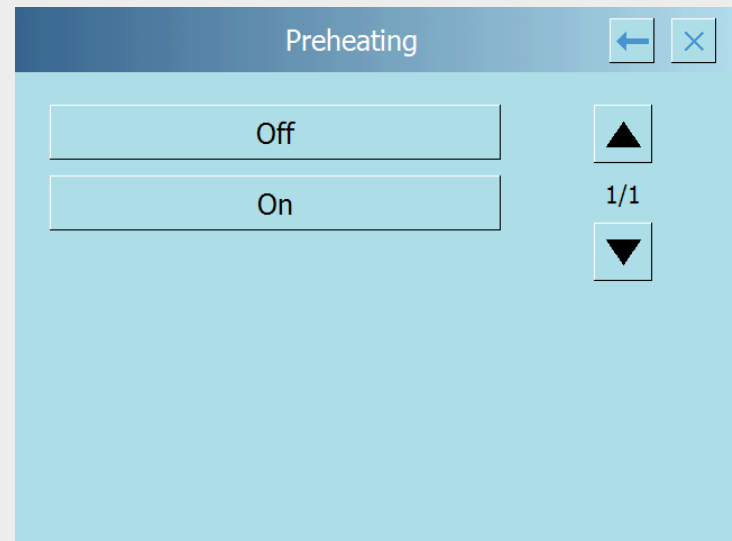
Loss %	1.0 %	▲
Time	10 s	1/1
Ok		▼

Autostop absolute

Loss mg	10 mg	▲
Time	10 s	1/1
Ok		▼

Pre-heating

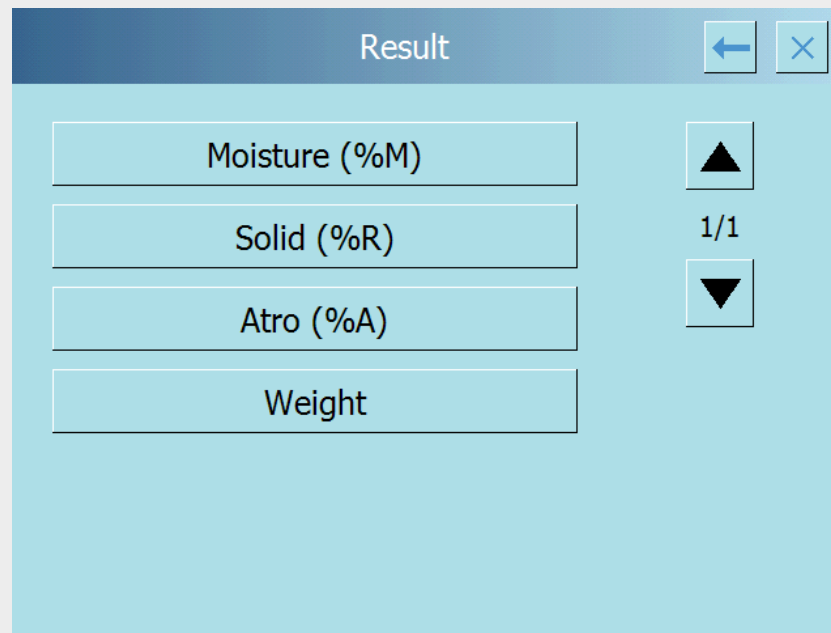
- Option to preheat the oven before drying process starting



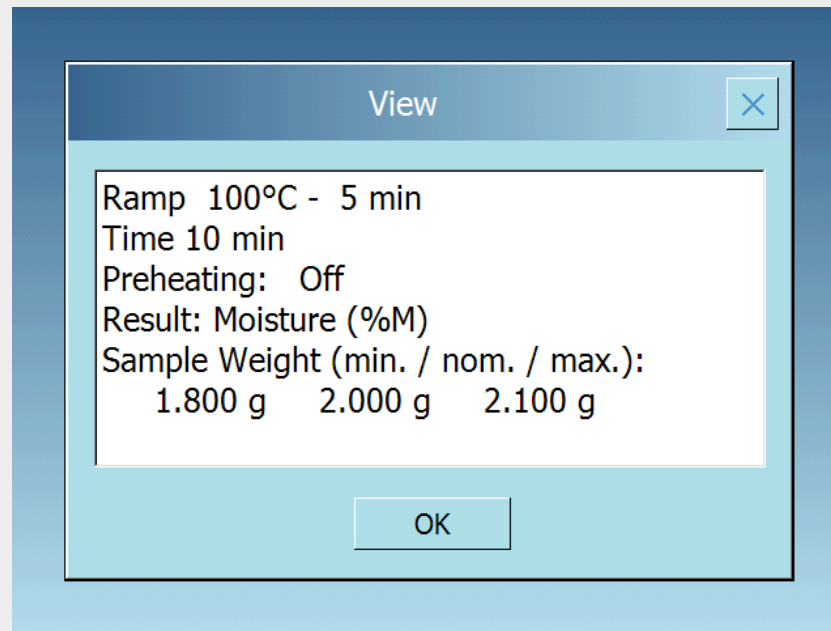
Sample nominal weight and tolerances setting

Nominal Weight		←	×
Off		▲	
Nominal Weight	2.000 g	1/1	
Min Weight	1.800 g	▼	
Max Weight	2.100 g		
Ok			

Drying analysis results format display

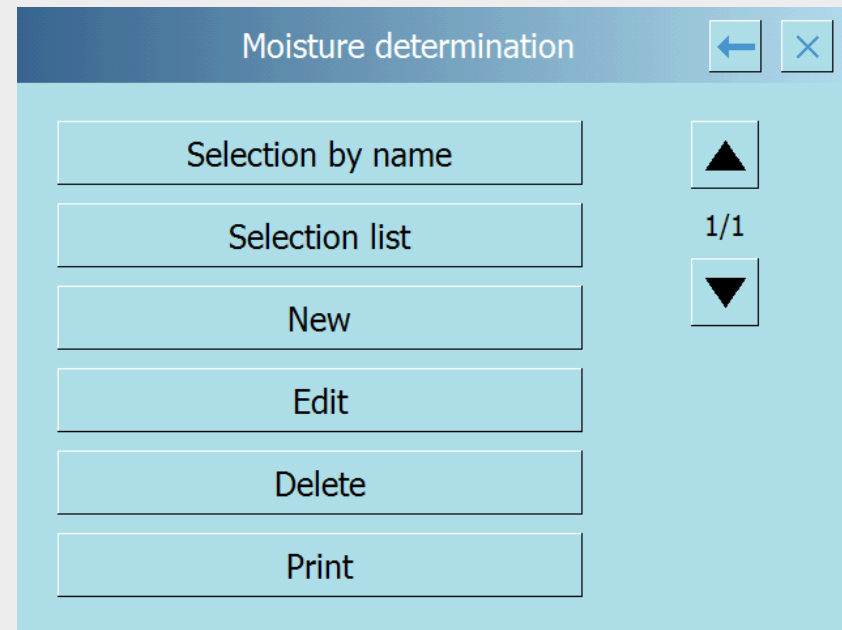


Drying process parameters setted display



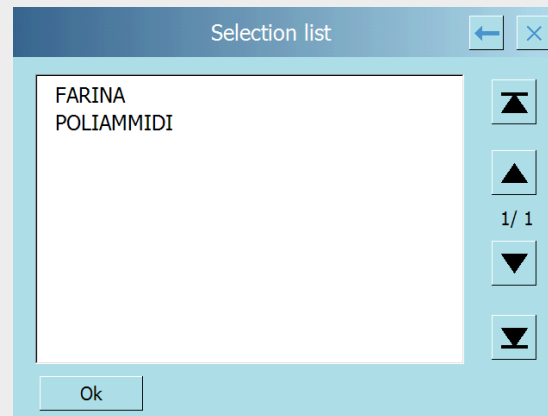
Database option

- Import-export-store a database
- Recall drying process from balance memory
- Printing of a database

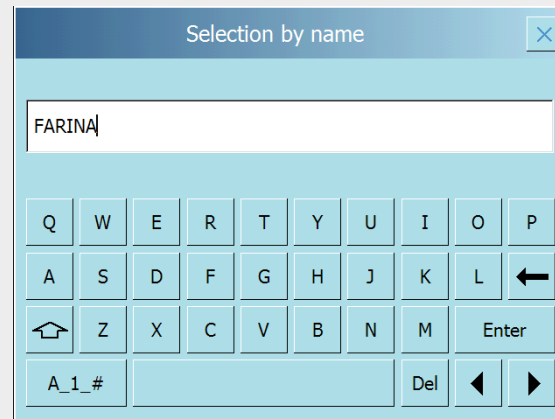


Items selection

- From list.



- By name



Drying process parameters of the item after selection by list or by name

- Press **“Ok”** key to start the process

FARINA [←] [×]

Description:
TIPO 00 [▲]

Temperature profile:
Standard 115°C [▼]

Drying end:
Autostop absolute 1mg / 25 s [Ok]

Preheating:
On

FARINA [←] [×]

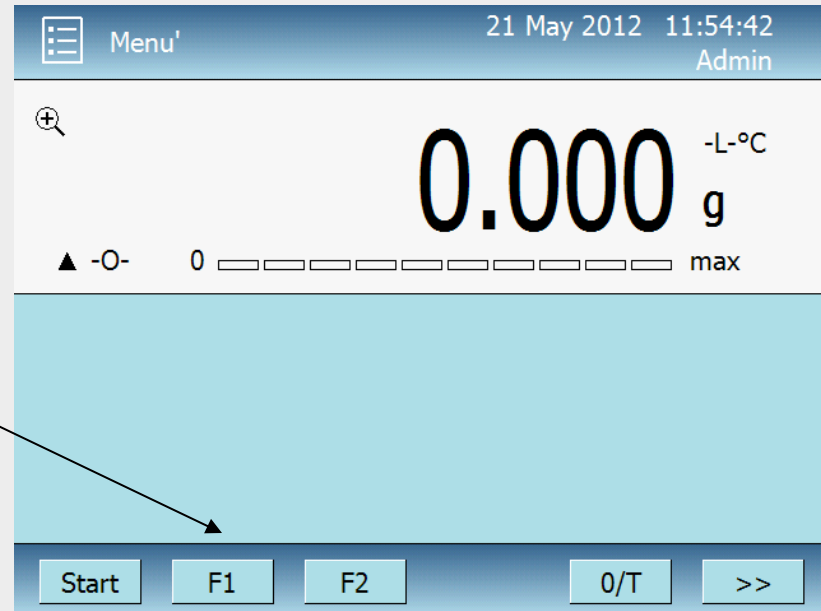
Weight Min. - Nominal - Max.:
2.800 g 3.000 g 3.200 g [▲]

Result:
Moisture (%M) [▼]

Rapid Key
F2 [Ok]

Drying analysis

- Fast access to programs selected from database and stored in F1-F2 or F3



Display of the program stored

- Fast start of the drying analysis pushing **“Ok”**

FLOUR

Description:
TYPE 00

Temperature profile:
Standard 115°C

Drying end:
Autostop absolute 1mg / 25 s

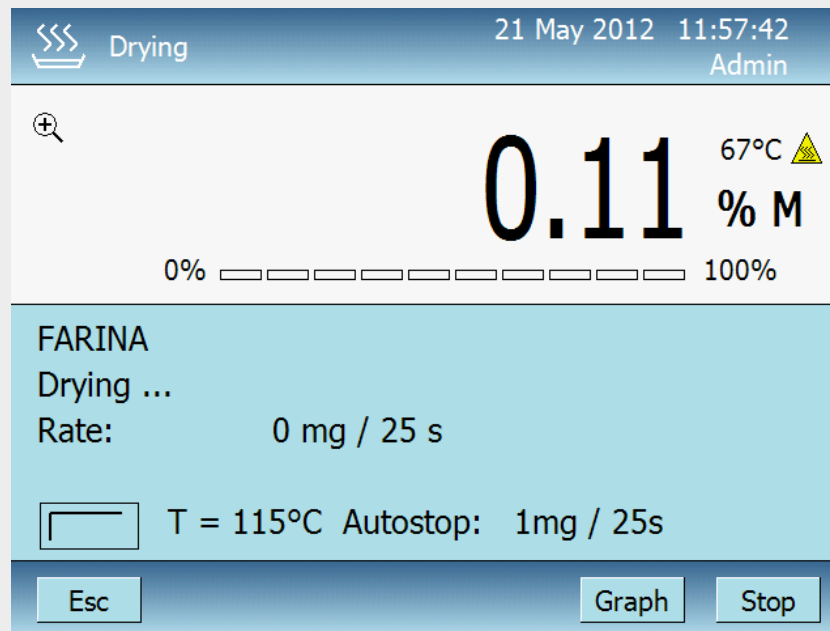
Preheating:
On

Loading sample on the plate

- Messages on the display to start



Drying start



Parameters setted

The screenshot shows a control panel for a drying process. At the top, it displays 'Drying' with a menu icon, the date '24 May 2012', the time '10:35:11', and the user 'Admin'. Below this, a large digital display shows '0.06' with a magnifying glass icon to its left and '109°C' with a warning triangle to its right. Underneath the display is a progress bar labeled '0%' on the left and '100%' on the right. The main area of the panel is light blue and contains the text 'FLOUR', 'Drying ...', and 'Rate: 0 mg / 25 s'. Below this, there is a temperature indicator 'T = 115°C' and an 'Autostop: 1mg / 25s' setting. At the bottom, there are three buttons: 'Esc', 'Graph', and 'Stop'. Annotations with arrows point to various elements: 'Product' points to the 'FLOUR' text; 'Heating mode' points to the temperature indicator; 'Drying rate' points to the '0 mg / 25 s' text; and 'Drying mode' points to the 'Autostop: 1mg / 25s' text.

Product

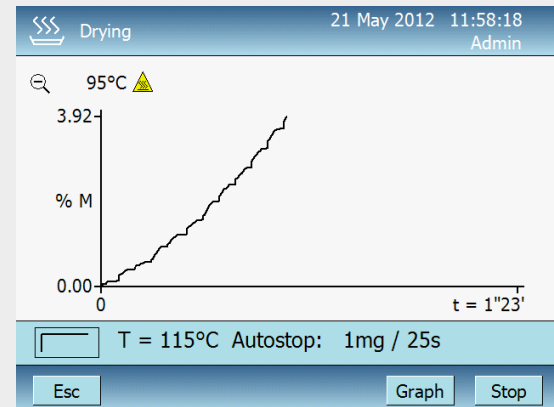
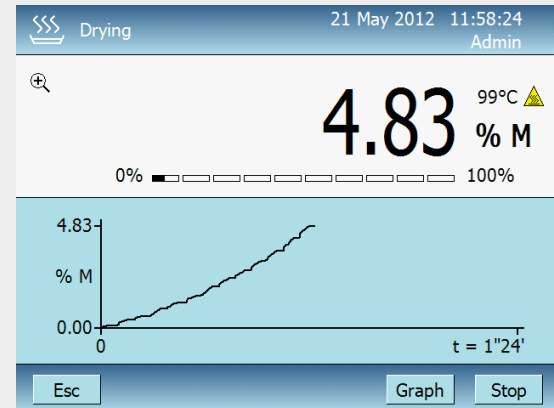
Heating mode

Drying rate

Drying mode

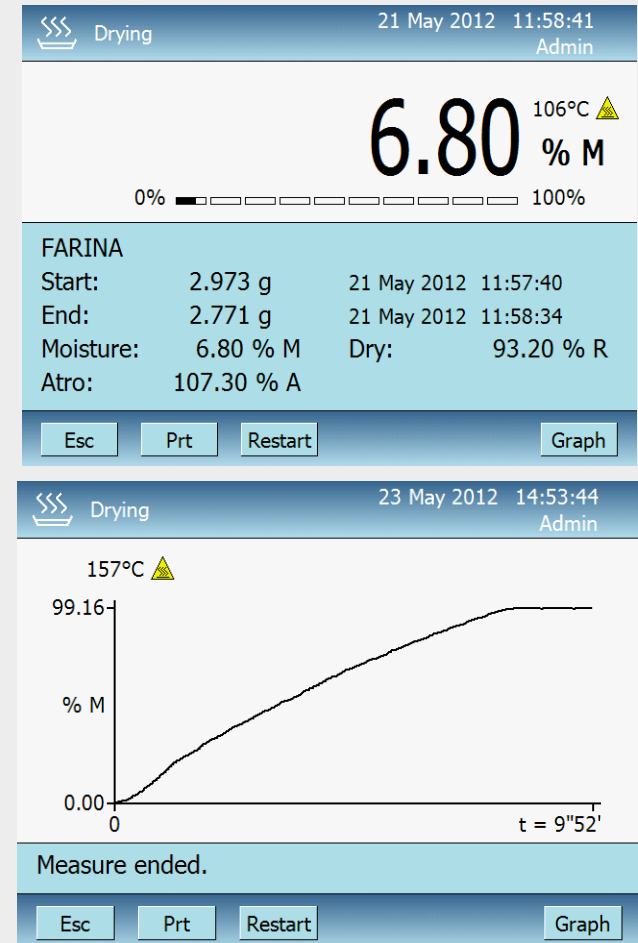
Drying graphic

- Moisture
- Solid
- Atro



Drying end

- Push print for date
- Push print for graphic
- Push restart to start another drying analysis



G.l.p. function

GLP

GLP Setup

GLP Database

1/1

GLP Setup

ID Balance:

ID Project:

ID User:

Ok

And finally, your benefits

- Fast learning use.
- Increase productivity in the laboratory quality control
- Display of all parameters of drying in real time
- Quick entry database via keyboard displayed on the touch-screen monitor
- **BEL** tablet windows CE os based

BEL ENGINEERING
