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Operating instructions
Temperature Calibrating set

KERN DLB_A01N

Version 1.1
2020-12
GB



GB

KERN DLB_A01N

Version 1.1 2020-12

Operating manual

Temperature Calibrating set

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1 Preparation

We recommend sometimes to check the temperature value of the models using the optional temperature calibrating set DLB-A01N. Before you do this, allow the device to cool down for at least 30 minutes after the last heating phase.

⇨ Install the temperature-calibration set acc. to illustration.



1.











⇨ Switch-on the moisture analyzer.

⇨ Close heating cover.

	For further information on how to operate the moisture meter please refer to the operating instructions enclosed with each model.

2 TDLG 160-3-A

2.1 Calibration of temperature value

During temperature calibration only a check is carried out, i.e. no values are changed.

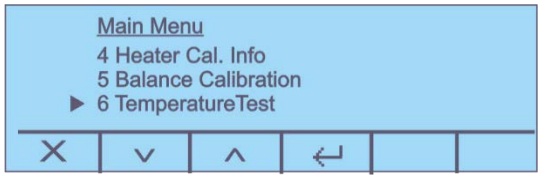
1. In the start display press the F1-key, the main menu will appear.



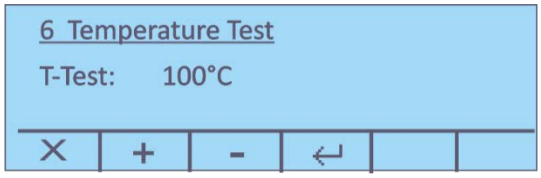




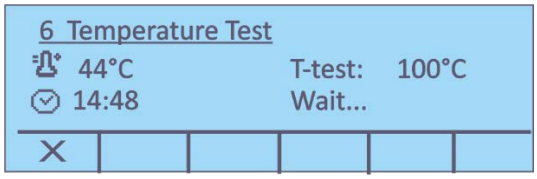
2. Press  to select the menu item **<6 - Temperature Test>** .



3. Acknowledge by .
   Press  to acknowledge the following instruction how to use a temperature calibration set DLB-A01N. The current setting is displayed



4. Select desired test temperature with  and acknowledge by .
   The device heats up the set temperature.

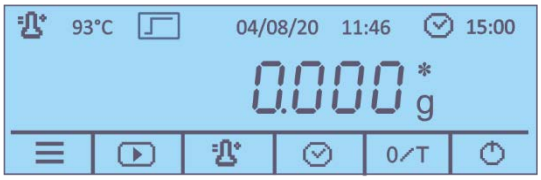


5. After 15 minutes the test is finished, an acoustic signal sounds. Compare the test temperature with the displayed temperature of the DLB-A01N. If the two values do not match, we recommend a temperature adjustment, see chap. 2.2
6. Press  to cancel the calibration.

2.2 Adjustment of temperature value

If in temperature calibration the admitted divergence is exceed or not reached, the temperature of the instrument can be adjusted as described below.

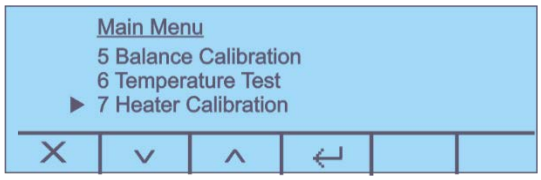
1. In the start display press the F1-key, the main menu will appear.



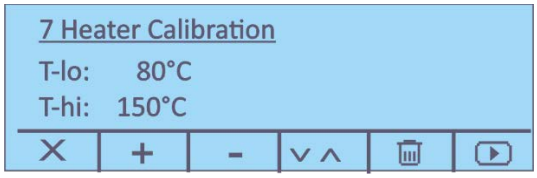




2. Press  to select the menu item **<7 – Heater Calibration>** and confirm by .

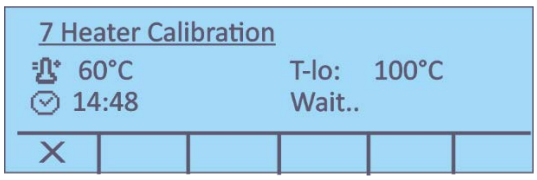


3. Confirm the inquiries <Are you sure> and the following instruction how to use a temperature calibration set DLB-A01N by .
   The current settings of the both temperature points T-lo / T-hi are displayed.



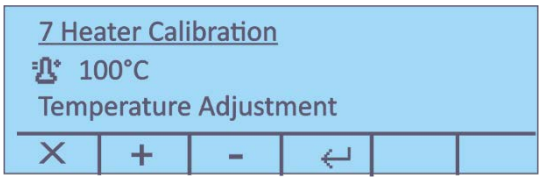
4. Press  to select the desired test temperature and press  to select between <T-lo> and <T-hi>. Acknowledge with .

5. Press , the first heating phase is started.

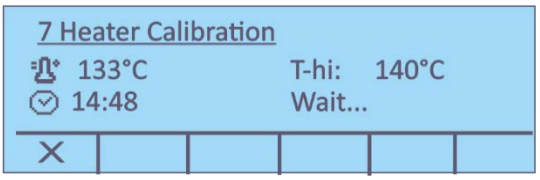


6. Temperature calibration for the first point takes 15 min. Compare the temperature displayed on the DLB-A01N with that of the moisture analyzer.

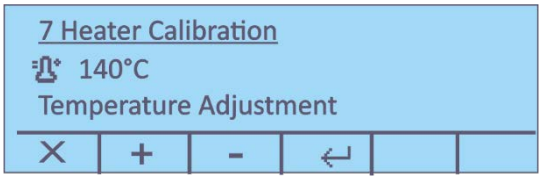
   If the two values do not match, read off the value at the temperature calibration set and enter with the help of [+] [-].



7. Confirm by [↵], the second heating phase is started.



8. Temperature calibration for the second point takes 15 min. Compare the temperature displayed on the DLB-A01N with that of the moisture analyzer.



   If the two values do not match, read off the value at the temperature calibration set and enter with the help of [+] [-] and confirm by [↵].

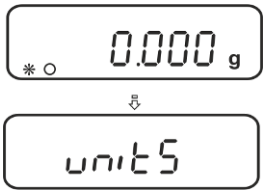


9. When an optional printer is connected, an adjustment log can be edited.
10. Press [×] to return into menu / start display.

3 DLB 160-3

Invoke service function:

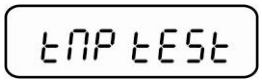
⇨ In weighing mode press the **MENU** button and keep it pressed until the acoustic signal gets mute. Release the button and the menu item “units“ will appear.



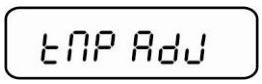
⇨ Press repeatedly the **MENU** button until „Service“ will be displayed.



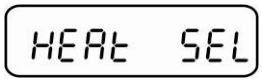
⇨ Confirm by pressing the **PRINT** button. Select the required settings by pressing the **MENU** button



Calibration of temperature, see chap. 3.1



Adjustment of temperature, see chap. 3.2

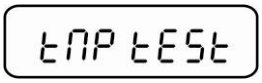


Settings of lamp

3.1 Calibration of temperature value

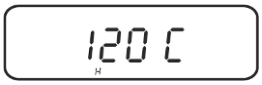
During temperature calibration only a check is carried out, i.e. no values are changed.

⇨ Invoke service function „Tmp test“, see chap. 3



⇨ Confirm by pressing the **PRINT** button. The current setting will be displayed. Use the navigation buttons 🡻 🡹 to select the temperature during the check, available 35- 160°C, e.g. 120°C.

⇨ Confirm using the **PRINT** button, the appliance heats up to the set temperature.



⇨ After approx. 15 minutes compare the test temperature with the displayed temperature of the DLB-A01N. If the two values do not match, we recommend a temperature adjustment, see chap. 3.2

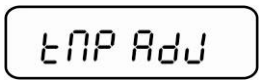
⇨ Use the **ON/OFF** button to finish the calibration.

⇨ Use the **ON/OFF** button to return into weighing mode.

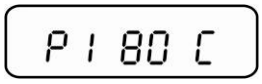
3.2 Adjustment of temperature value

The temperature is measured at two selectable points and it is possible to correct it there.

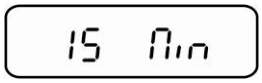
⇨ Invoke service function „Tmp Adj“, see chap. 3



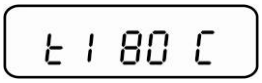
⇨ Confirm by pressing the **PRINT** button. The current setting for the first temperature point is displayed. Or leave it on factory setting 80°C or select a desired temperature with the help of the navigation buttons 🡻 🡹 (available 50-130°C).



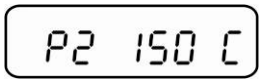
⇨ Confirm with the **PRINT** button, the first heat-up phase is started. The remaining time is displayed.



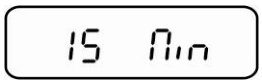
⇨ Temperature calibration for the first point takes 15 min. Compare the temperature displayed on the DLB-A01N with that of the moisture analyzer. If the two values do not match, correct them using the navigation buttons 🡻 🡹 and confirm with the **PRINT** button



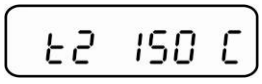
⇨ The current setting for the second temperature point is displayed. Or leave it on factory setting 150°C or select the desired temperature with the help of the navigation buttons 🡻 🡹. The second temperature point has to be at least 30°C over the first one, max. 160°C.



⇨ Confirm with the **PRINT** button, the second heat-up phase is started. The remaining time is displayed.



⇨ Temperature calibration for the second point takes 15 min. Compare the temperature displayed on the DLB-A01N with that of the moisture analyzer. If the two values do not match, correct with the help of the navigation buttons 🡻 🡹.



⇨ Confirm by pressing the PRINT button. The adjustment is completed, the appliance returns into the menu. Use the ON/OFF button to return into weighing mode.