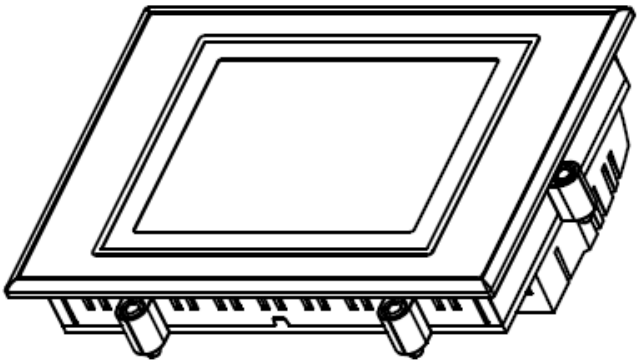
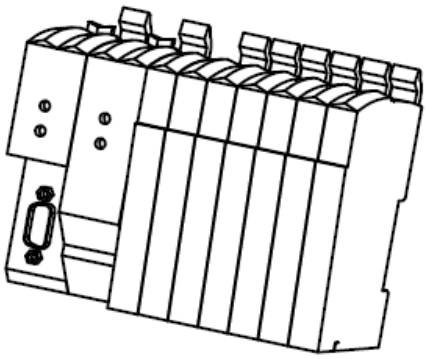
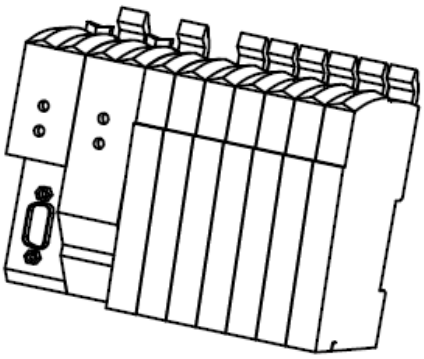
Weighing computer

Quick reference guide

K1







DWC-7B

KUKLA AUSTRIA

Revision list

Revision	Date	Author	Chapter	Description
KA7_X000d	22.08.2014	Ratzinger	All	Preliminary Version / New issue
KA7_V010e	23.06.2015	Krichbaum	MatTest	Latest pictures

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*** SAFETY REGULATIONS ***

Being under voltage the device must not be opened. Danger of electric shock exists. Service works at the weighing equipment are permitted only for qualified personnel. In case of works at conveying lines all relevant drives have to be switched-off and secured against re-engaging.

The related device/system may only be set-up and operated in connection with this documentation. Start-up and operation of a devices/system may only be carried out by **qualified personnel.** Qualified personnel in terms of safety notes of this documentation are persons being authorized to take into operation, to ground and to label the devices, systems and circuits in accordance with the standards of safety engineering.

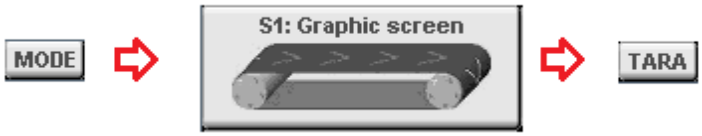
Service module DWC-7A

Attention:
One Service module is able to control several scales. Therefore before each operation it has to be checked if the Service module is connected to the desired scale system.

Identification is effected by name and KUKLA-serial number/fabrication number (FN:). The active scale system can be switched by key MODE and scale selection.

TARING >0<

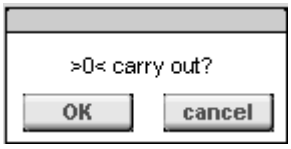
To ensure the supply of correct results, the tare of the scale has to be set properly. The taration should be started in Graphic screen.



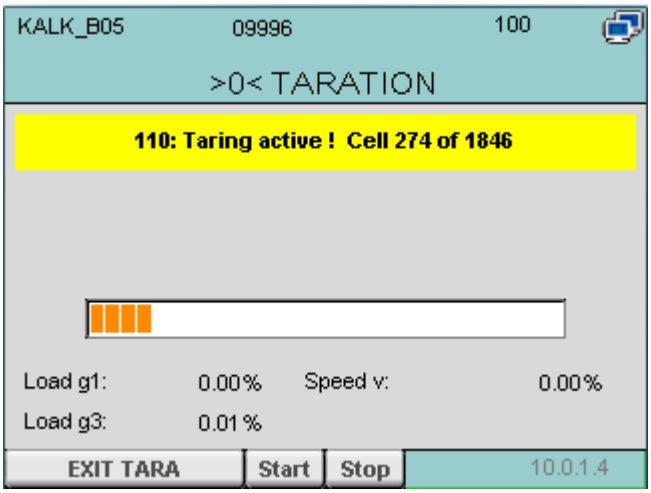
Attention!: Before starting taration, the scale has to be checked for disturbing influences.

Taring always at running maindrive (belt)! Impact flow meters are tared with conveying length switched-off.

After pressing key >0< and confirmation the taring process runs automatically. The ZERO POINT of the scale is determined.



Confirm with OK !



Then the system changes again into normal operation.

The system must be tared regularly to ensure a proper function over a long time period.

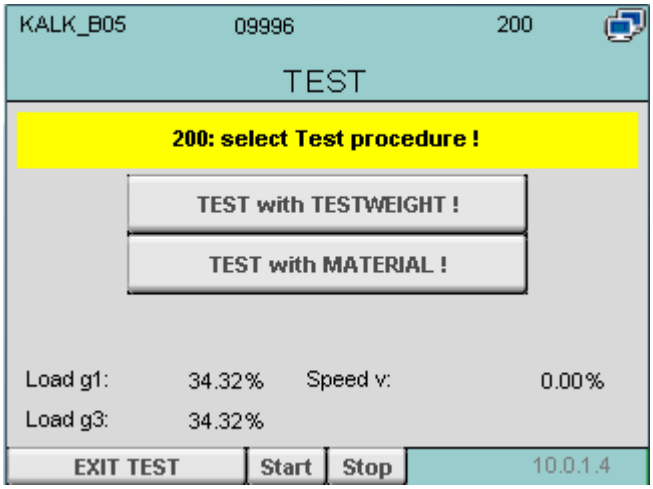
TEST / CHECK of MEASUREMENT ACCURACY

By means of a test the accuracy of the scale can be checked with real material or with test weight and - in case of need - be corrected. If in normal operation key „TEST“is pressed, a selection appears:

„TEST with TEST WEIGHT“ is the Standard selection, at which the scale usually is tested with the test weight supplied.

TEST with MATERIAL“ permits the check of the scale with real material and is – if possible - to be preferred against test with test weight.

„AREA WEIGHT TEST“ is a special application.



TEST with MATERIAL

Permits material check with 10-fold resolution of counting compared with normal operation.
Counters „**A**“, „**B**“ and „C“ as well as the counting pulse output are blocked during the test with material.

There must be material available of at least 10-fold quantity of a single counting step at normal operation.

Proceeding at material test:

1. Press key „TEST“.
   Selection screen „**TEST**“ appears.
2. Start with key „Material test“.
   The picture represented on the left appears.
3. Switch on material conveying. The weighing belt load should be in the normal range during the material test („g1“ = approx.50-80%).
4. When the material sample has passed, stop the material transport.

Evaluation of material test .

1. Press key „Finish Materialtest“. The picture represented on the left appears
   In case of test quantity less than 100 counting steps
   the test routine is left after 10s. Evaluation is not possible. .
2. Re-weigh the material sample conveyed.
3. Overwrite the suggested value (= the value measured by the scale) with the actual weight in the yellow real weight field and press “Correct!”.
4. key „EXIT TEST leaves the material test without correction.
   The material test permits a correction corresponding the adjustment at parameter „limit of correction“. If due to the correction the limit of correction or the measuring range of the weighing channel would be exceeded, no correction is possible. An error message appears. The change is rejected and the original value is indicated anew.
5. With key „EXIT TEST“ the mode can be left. Otherwise the material test is finished self-acting after 15s.

TEST with TESTWEIGHT (TEST LOAD)

If for reasons of time or for technical reasons no material test is possible, the measuring accuracy of the system can be checked quick and easy with the test weight.

The drive must run, but the system must not convey any material during the test with test weight!

1. Press key „TEST“ and start with selection „TEST with TESTWEIGHT !“.
   If the message **„waiting for EMPTY at g3 point“** appears, the tare of the scale is not OK or there is still material on the scale. The test has to be interrupted (EXIT TEST), the scale has to be checked and tared.
   If “PLEASE LAY ON TEST WEIGHT“ is indicated, then lay on the test weight (sometimes the test weight consists of two weights which have to be laid on the left and right side of the weighing bridge).
2. If the load by the test weight achieves approx. 60% of the test weight parameter, the system changes to the settling time for approx.10 s.
3. The test with test weight (test load) runs down.
   While the test is running, the load value with test weight is indicated („**g1**“).
   A progress bar informs about the test run.
4. Evaluation.

   Shown is: „Test result:“ **-xx.yy%**

   The result informs about the measuring accuracy of the scale. If the deviation is more than the permitted tolerance and within the limits of correction (standard adjustment = 5%), a correction of the measuring can be done with key „Automatic correction“.

   The message „limit of correction“ indicates if a correction is not possible because of too high deviation.
   If during test with test weight a deviation higher than the permitted tolerance (1%) is measured, the test has to be repeated with key „Repeat test !“.

   As soon as the test weight is lifted, change into normal operation is done after a short period of settling time.

- <u>Possible causes of a too big deviation, which have to be eliminated before the correction</u> :
- Pollution of weighing roller(s)/weighing bar resp. of measuring length limiting
- Pollution of the weighing belt or maybe bad run of weighing belt
- Damage of weighing belt
- Test weight(s) not correctly laid-on
- Material guiding not correctly adjusted. The material guiding must not impede the scale.

Status and error messages

If a critical error is active, this is represented in the graphics display with a red „ERR“-indication.
By clicking on this icon the active status- and error messages are displayed. The cause of error must be eliminated according to the operating instructions.
Then the message has to be deleted with key „Quit“.