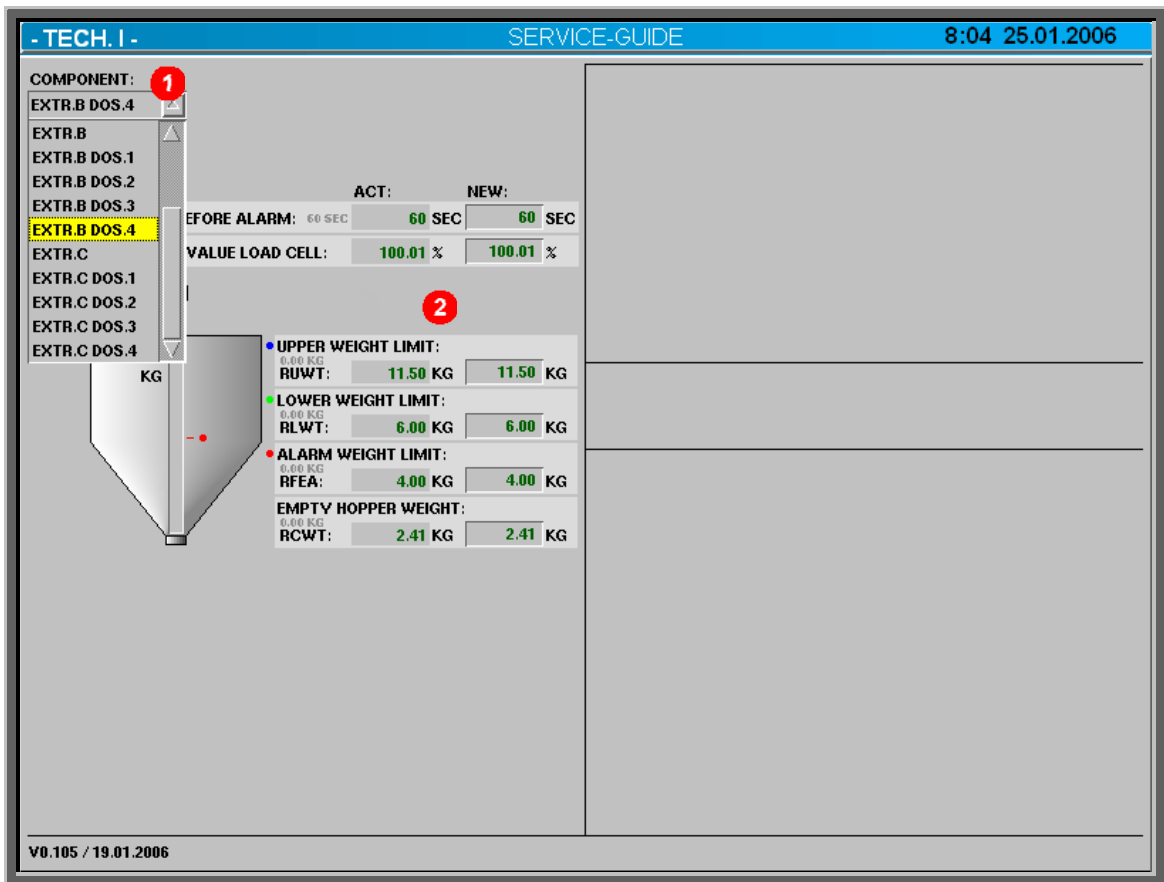


## Load Cell Calibration with Service Guide

The Service Guide can be accessed from the main menu after entering the password (usually 1). An extensive help function is available for the calibration of the load cells. In the beginning of this process the corresponding weighing hoppers must be emptied. A calibration weight with a precisely known weight is required.

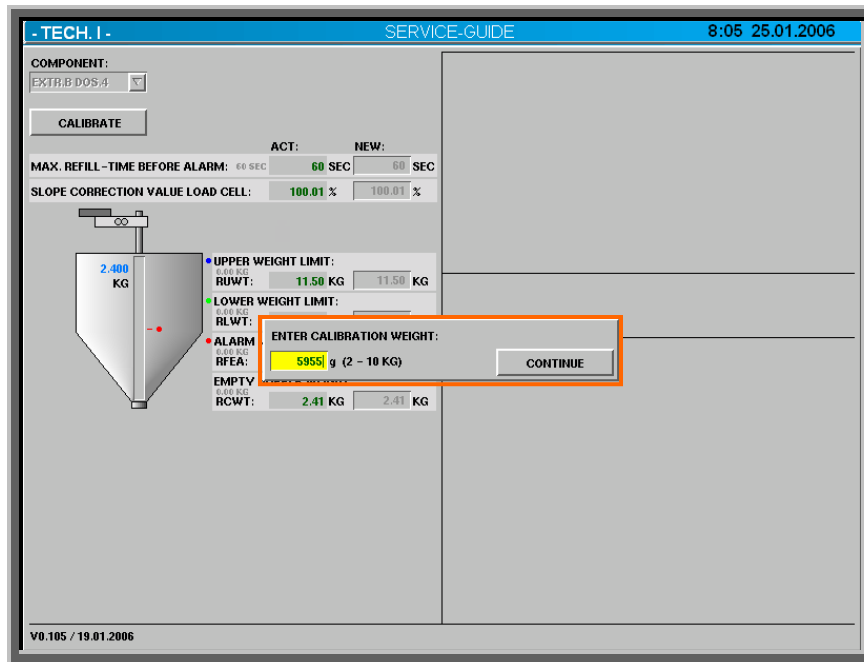
Negative influences must be avoided as for example: vibrations at the weighing hopper, granule or other objects on or in the hopper.

In the first step the component to be calibrated must be selected from a drop-down menu:

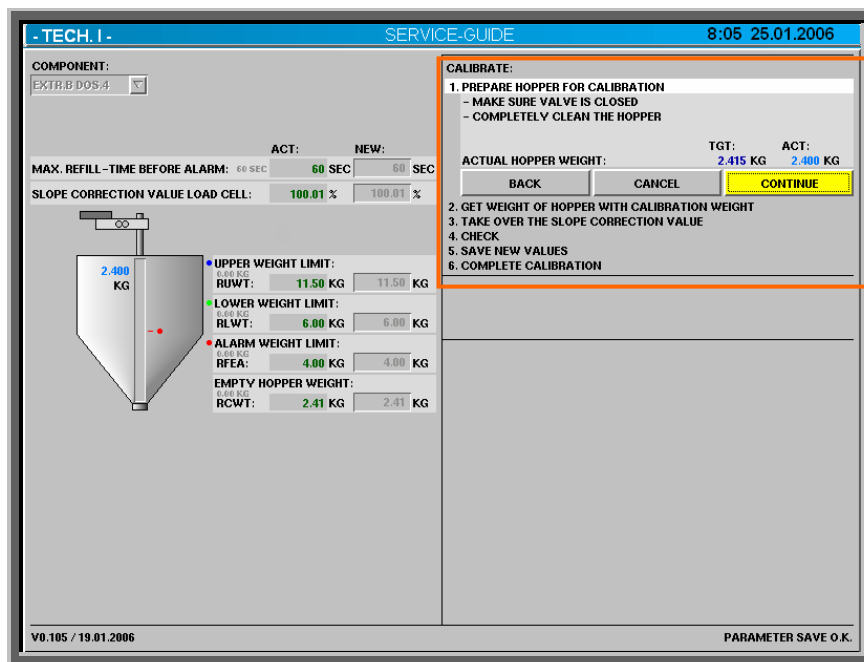


- 1 Drop down menu to select the weighing component. The menu is operated with the <Cursor> - keys. Pressing the <ENTER> - key confirms the selection.
- 2 Information and graphical display of the current parameter settings. Parameter modifications from the column "NEW" are also written to the respective parameter list.

After the weighing component is selected an input field appears in which the value of the calibration weight [g or lbs] must be entered:

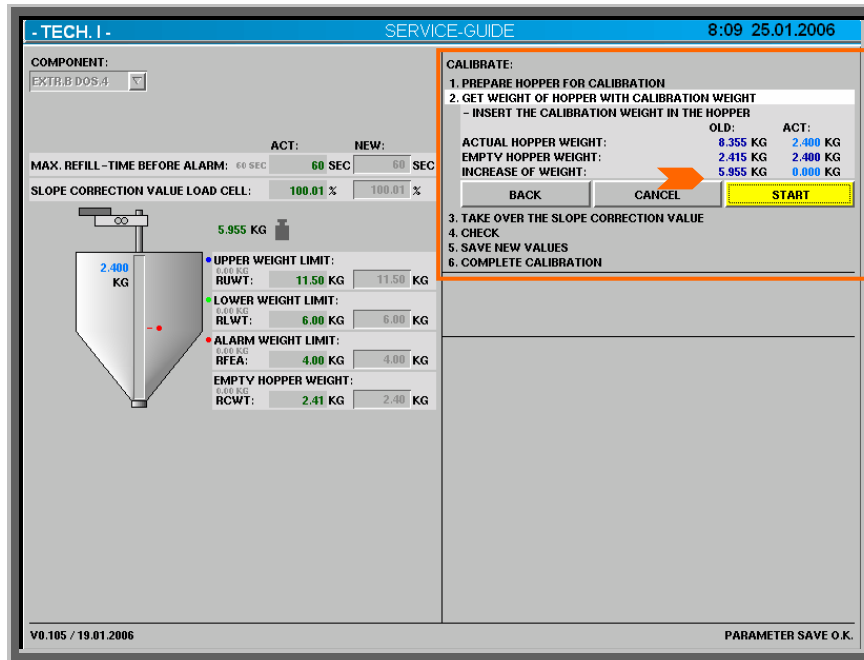


After entering the weight value step-by-step instruction of the process appears on the right side of the page:

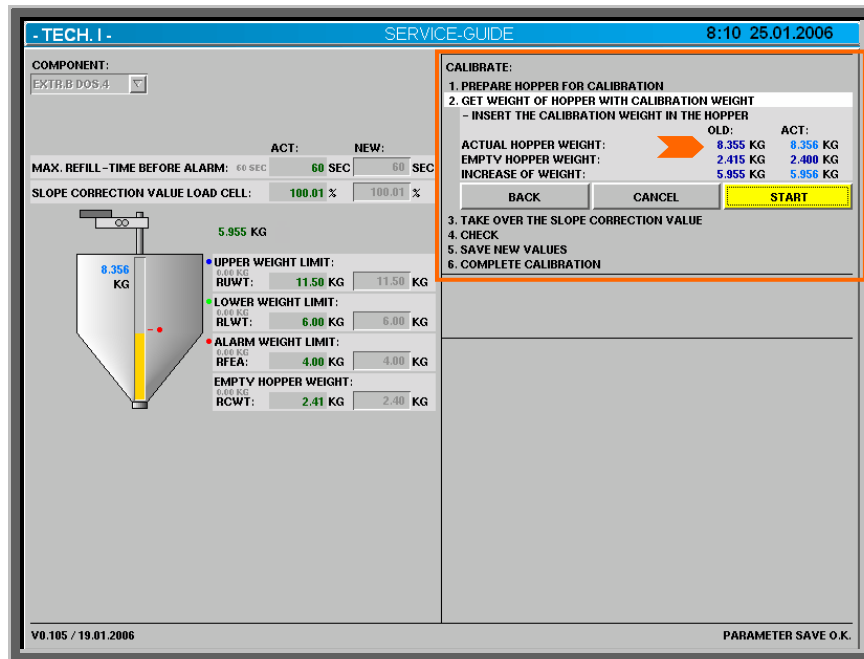


For the determination of the hopper weight the valves must be manually closed and the hoppers must be completely empty. Using respective buttons the calibration steps may be repeated, cancelled or continued at any time. The command button "CONTINUE" starts the measurement of the hopper weight. During the measurement procedure the operation of the command buttons is suspended.

The following step requires the calibration weight to be placed centric inside the weighing hopper. At this point the calibration weight will be added to the hopper weight.

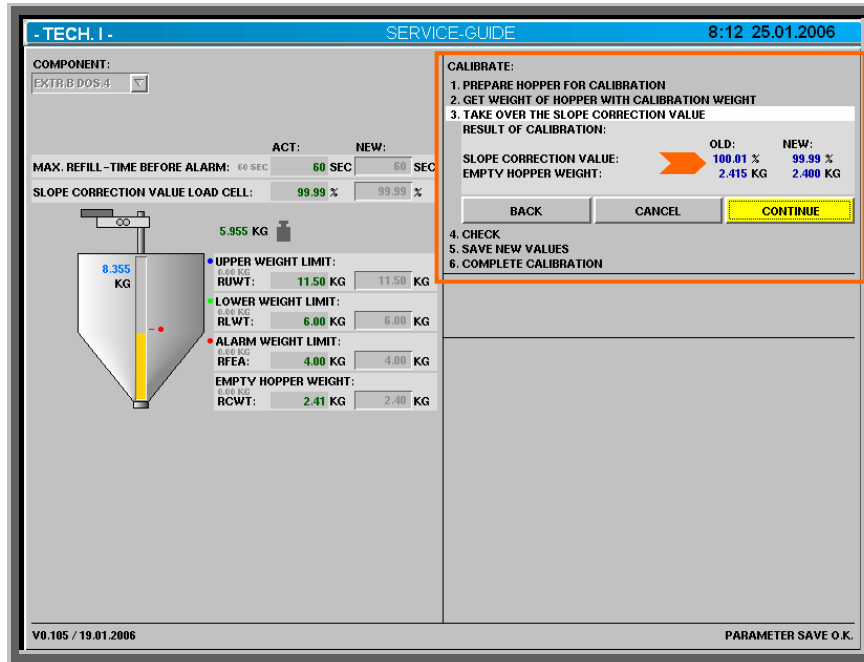


Pressing "START" will confirm the measured value and proceed to the next step:

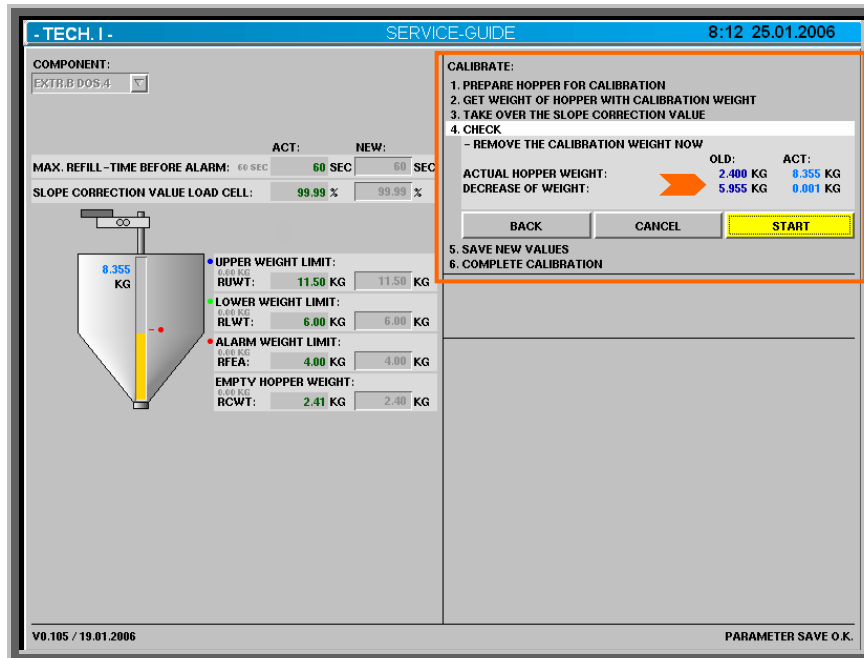


A difference between the actual hopper weight "OLD" and "ACT" will result in a new calibration value. This new value is displayed in the next step.

The calculated calibration value and the actual empty hopper weight will appear in the column "NEW".

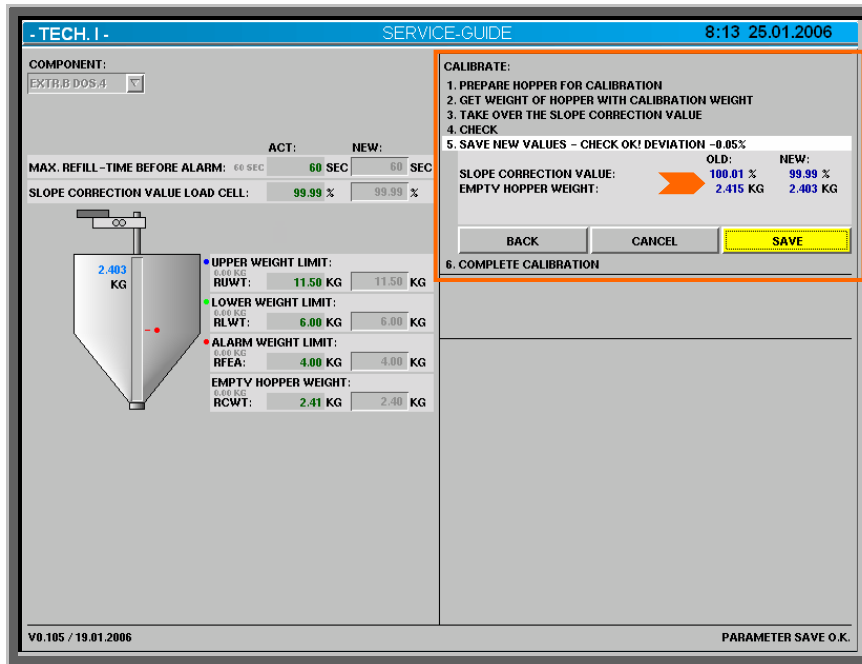


Pressing "CONTINUE" will proceed to the next step to verify the calibration value:

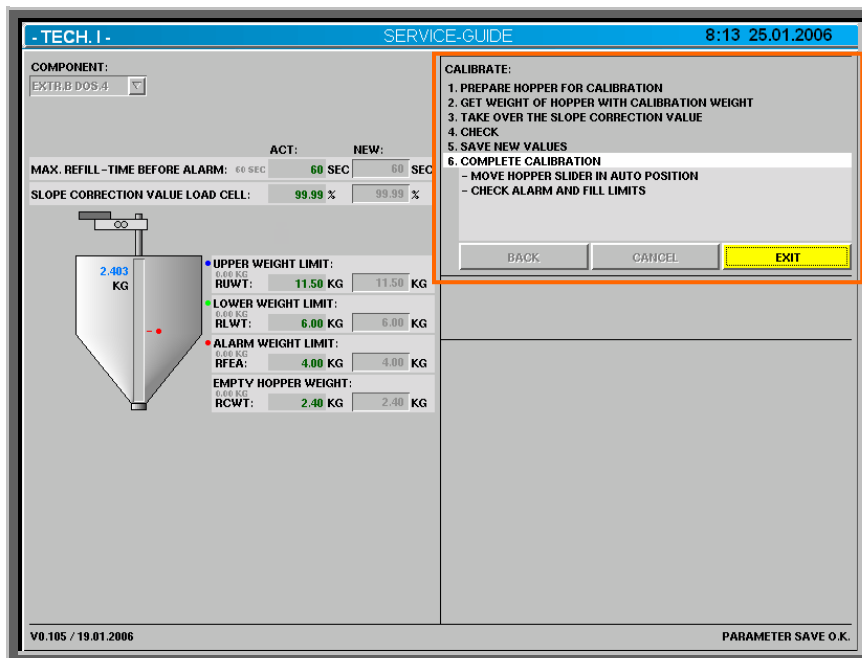


For the verification the calibration weight must be removed to check for the loss in weight value.

In the following step the calculated values are saved:



The shut off valves must be switched back to Automatic mode to finish the calibration procedure. A visual check of the hopper refill process must be made to decide if the refill limits have to be adjusted.



Pressing "EXIT" will finish the calibration process for this weighing component.

## **Service-Guide Parameter set up**

In the Parameter list "PARAMETER TPT SYS SERVICE-GUIDE" a set up for the Service-Guide function is available.

<b>Parameter</b>	<b>Default</b>	<b>Description</b>
<b>PARAMETER TPT SYS SERVICE-GUIDE</b>		
SET_SGU	[0]	1 = activate Logfile
CWEIGHT	[1002]	Calibration weight max / min, Format: yyzz yy = max weight in kg, [2004] if lbs zz = min weight in kg/lbs
NOISE	[410]	Format: yyzz yy = weighing time in seconds zz = max. noise in g or 1/klbs - 0 = off
LSLEW	[30303]	Format: xxyyzz max deviation of slew rate in % xx = IOX (LIO V2) yy = UFA (old load cell converter) zz = WGT / WGP (latest load cell converter)
WARN	[505]	Format: yyzz yy = % valid deviation weight increase zz = warn limit % deviation of old slew rate
RWEIGHT	[5955]	Calibration weight value [gr/lbs], also written back from Service-Guide
CXR	[0]	n.u.

## **Possible Alarm messages**

### **Wrong calibration weight:**

Calibration weight out of limits (see parameter CWEIGHT)

### **Excessive deviation between old and new MVSL:**

Deviation exceeds parameter value WARN

### **MVSL out of limits:**

Deviation exceeds parameter value LSLEW

### **Excessive increase in weight:**

Deviation exceeds parameter value WARN

### **Excessive decrease in weight:**

Deviation exceeds parameter value LSLEW

### **weighing signal not stable:**

Deviation exceeds parameter value NOISE

### **Empty hopper weight too small:**

the measured value indicates a hopper weight of less than 500g