

2761

Getting Started and Operating Instructions

CE

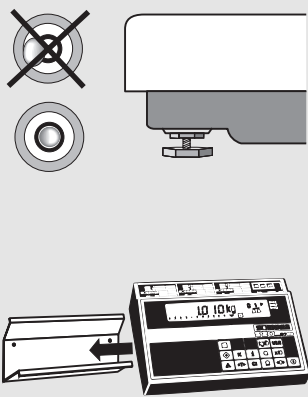
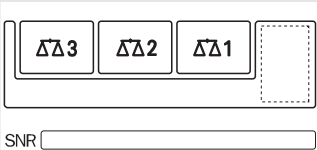

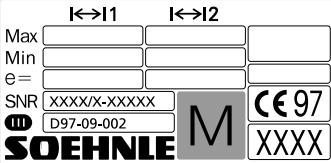

SOEHNLE

S 20

470.620.022

Printed in Germany 2/1998
Subject to technical modifications

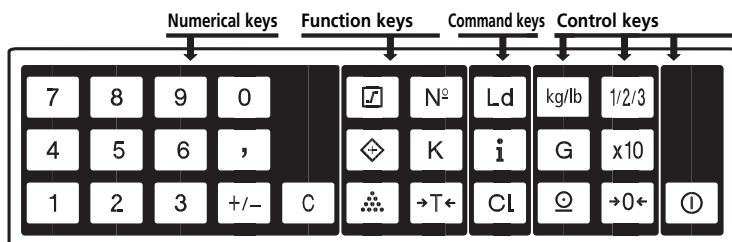
S 20 – Getting started

	<p>Set up the weighing platform at the place required</p> <p>Use the water level and the adjustable feet to ensure that the scale is positioned horizontally.</p> <p>Fit the indicator or mount on the wall using the bracket provided.</p> <p>Connect the device to the mains</p> <p>The scale is ready for use</p>
	<p>ΔΔ1 The order in which the scales can be connected</p> <p> Space for fuse stamp</p> <p>SNR Serial number</p>
	<p>↔11 Weighing range (weighing ranges in the case of multi-range scales)</p> <p>Max Range permitted for calibrated weighing</p> <p>Min</p> <p>e= Calibration value (graduation)</p> <p>SNR Serial number (scales type, last digits of year of manufacture, number).</p> <p>CE 97 EU conformity symbol with year applied</p> <p> D93-09-155 precision class, no. of EU admission.</p> <p>XXXX Code of the office quoted</p> <p>M Sign for EU admission</p>

S 20 – Using the scales

If you use the display consistently and logically, you will soon discover the universally powerful capacity of the scales. Many functions only require one push of a button - memory functions are available with just a few frequently used key sequences.

The clearly laid out keyboard is divided into blocks of keys:



Control keys		<p>On - Off Switch on (only when the scales are not loaded)</p> <p>After the test routine, the main display is set to zero.</p> <p>The scales are ready for use.</p>
	<p>3</p> <p>x10 0.0001 kg</p> <p>0.000 kg 0</p> <p>8.020 kg G</p>	<p>1/2/3</p> <p>x10</p> <p>→0←</p> <p>G</p> <p>☉</p> <p>kg/lb</p> <p>Switching between the scales</p> <p>Higher resolution (hold down the key)</p> <p>Zero setting</p> <p>Gross weight</p> <p>Data-transmission (printer/EDP)</p> <p>Switching between kg and lb</p>
Function keys	<p>No(1) 64-57</p> <p>ΣK 89, 0 kg</p> <p>T 1, 023 kg</p> <p>S(3) 24 kg</p> <p>Σ 23, 56 kg</p> <p>682 p</p>	<p>N²</p> <p>K</p> <p>→T←</p> <p>☑</p> <p>⊕</p> <p>☉</p> <p>Enter organisational data</p> <p>Component weighing</p> <p>Tare</p> <p>Switch</p> <p>Add</p> <p>Count</p>
	Numerical keys	<p>C</p> <p>+/-</p> <p>1</p> <p>Delete input (digit by digit)</p> <p>Minus sign or hyphen when entering organisational data</p> <p>Numeric keyboard with decimal point (manual entry)</p>
Command keys		<p>0.789 Ldi</p> <p>i3</p> <p>Cl 2</p>



An acoustic signal confirms that the entry is correct

Incorrect entries are indicated by means of five acoustic signals in swift succession.

Please check that your entry is correct. If necessary, cancel the command sequence by pressing the "Cl" key.

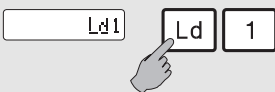
The indicator 2761 has a wide range of memory options:

- 10 tare memories**
- 3 memories for organisational data**
- 3 memories for set points or limit values in the weighing and counting mode and in counting mode**
- 40 reference weight memories**

These memory options are operated by means of the

**numeric keyboard manual entry
and for calling the relevant memory number
command keys for loading, calling and deleting
function keys for activating the function**

T 1.023 kg



PT(1) 1.023 kg

Loading values

Loading the value which is in the secondary display or which has been entered manually using the numeric keyboard:

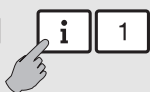
Press the "Ld" command key.

Now enter the number of the memory in which you wish to store the value.

Confirm your entry by pressing the appropriate function key (in this case "Tare")

The procedure is the same for organisational data memory, limit value memory and tare memory. The reference weight memory is only available in counting mode. Switch over if necessary.

il



S(1) 24 kg

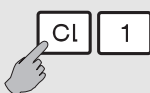
Recall of stored value

Press the "i" command key and the number of the memory where the value you want is stored. Please note that reference weights can only be called in counting mode.

Confirm your entry by pressing the appropriate function key (in this case the limit memory)

Tare memory values and (in counting mode) reference weight memory values are activated by pressing the function key again (in this case the limit value memory).

Cl 1



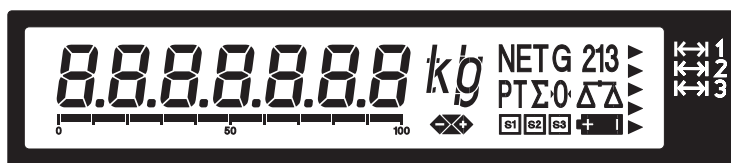
R(1) 0.000g

Clear memory

Press the "Cl" command key. Then enter the number of the memory you want to clear.

Confirm your entry by pressing the appropriate function key (in this case Count). Simply overwriting the memory as described under "Loading values" also deletes the current value.

S 200 – Display symbols main display



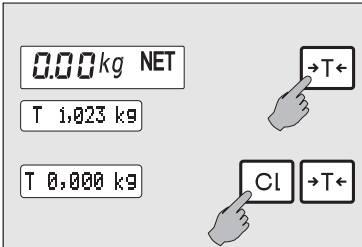
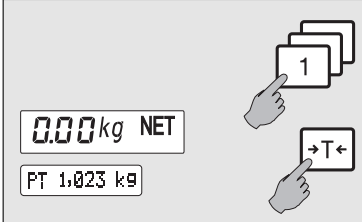

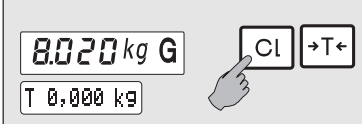
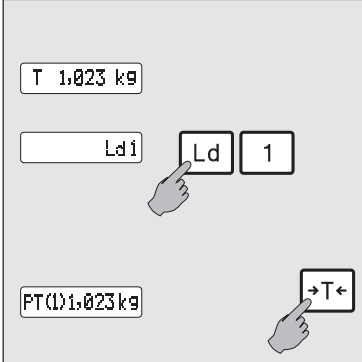
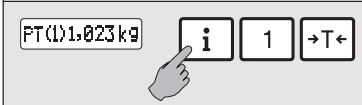
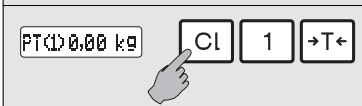
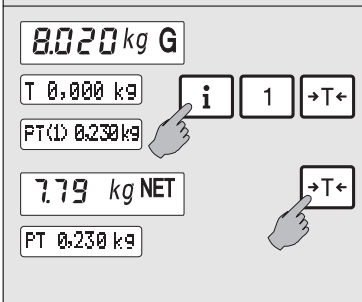
	Zero message
	Standstill indication
	Active range in the case of multi-range scales.
	Percentage display
	Empty message
	Set points activated
	Gross weighing
	Net weighing
	Tare display
	When battery is used (accessories): charge level
	Status switching and checking
	Totals memory
	Active scale
	Components weighing active



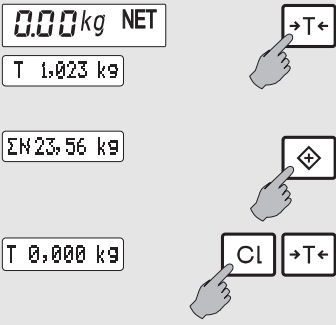
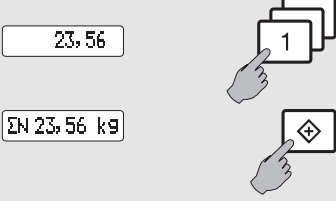

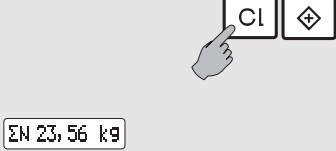
secondary display

Max P	We recommend optimising the reference weight within this range (wait for idle indicator)
G 10,789 kg	Gross weight
T 1,023 kg	Tare
Ref 0,389 g	Reference weight
R(1) 0,578 g	Reference weight memory
S(3) 24 kg	Set point/limit value memory
No(1) 64-57	Memory for organisational data
EN23,56 kg	Weight totalled memory
ΣP 4500 P	Quantity totalled memory
ΣK 89,0 kg	Component weighed totalled memory
PT(1) 1,350 kg	Tare memory

S 200 – Weighing with tare

 <p>0.00 kg NET T 1.023 kg T 0.000 kg</p> <p>→T← CL →T←</p>	<p>If the tare weight is unknown</p> <p>Determine the tare of the empty container</p> <p>Scales are ready to perform net weighing</p> <p>If necessary, clear the tare after unloading the scale</p>
 <p>0.00 kg NET PT 1.023 kg</p> <p>1 →T←</p>	<p>If the tare weight is known</p> <p>Place the filled container on the scale. Enter the tare weight in kg using the numeric keyboard.</p> <p>Confirm your entry by pressing the "T" function key</p> <p>The net weight is displayed</p>
 <p>PT 1.023 kg</p> <p>i →T←</p>	<p>Displaying the tare weight (in the secondary display)</p>
 <p>8.020 kg G T 0.000 kg</p> <p>CL →T←</p>	<p>Clearing the tare weight</p> <p>The gross weight appears in the main display.</p>
 <p>T 1.023 kg Ld1</p> <p>Ld 1 →T←</p> <p>PT(L)1.023 kg</p>	<p>Storing the tare weight</p> <p>Loading the tare weight which has been determined or which has been entered using the numeric keyboard.</p> <p>Press the "Ld" command key</p> <p>Then enter the number of the tare memory in which you wish to store the value (there are 10 tare memories (0...9) available for each connected scale.</p> <p>Confirm your entry by pressing the "T" function key.</p> <p>If necessary, clear the tare after unloading the scale.</p>
 <p>PT(L)1.023 kg</p> <p>i 1 →T←</p>	<p>Recalling a tare memory value</p>
 <p>PT(L)0.00 kg</p> <p>CL 1 →T←</p>	<p>Clearing a tare memory value</p>
 <p>8.020 kg G T 0.000 kg PT(L) 0.230 kg 7.79 kg NET PT 0.230 kg</p> <p>i 1 →T←</p> <p>→T←</p>	<p>Weighing using the tare memory</p> <p>Place the filled container on the scale.</p> <p>Then call the tare memory value.</p> <p>If you press "T" function key again, the tare value will be transferred to the current weighing. The net value appears in the main display.</p>

S 20 – Totalling weights

There is a totals memory available for each connected scale in weighing mode.	
 <p>0.00kg NET T 1.023 kg ΣN 23.56 kg T 0.000 kg</p>	<p>Tare the container if necessary. Place the items to be weighed on the scale.</p> <p>Transfer the weight value to the totals memory.</p> <p>Take the items take weighed off the scale.</p> <p>Clear the tare if necessary If necessary, enter a new tare. Place the next items to be weighed on the scale. Transfer the weight value to the totals memory, etc.</p> <p>The same container must not be tared again after totalling to prevent a second totalling.</p>
 <p>23.56 ΣN 23.56 kg</p>	<p>Value - including minus values can be entered by means of the numeric keyboard.</p> <p>Enter the value</p> <p>Transfer the value to the totals memory.</p>
 <p>ΣN 23.56 kg</p>	<p>Displaying the totals memory. By houlding the "+" key the net-, gross-, tare-total are displayed cyclically in the secondary display.</p>
 <p>ΣN 23.56 kg</p>	<p>Clearing the totals memory By houlding the "+" key the net-, gross-, tare-total are displayed cyclically in the secondary display.</p>
	<p>If a printer is connected the "+" function key and the "Cl/+" key combination activate printing. Printing will take place according to the printing format definition. For more detailed information, see "Printing".</p>

S 200 – Weighing using the removal method – *see component weighing

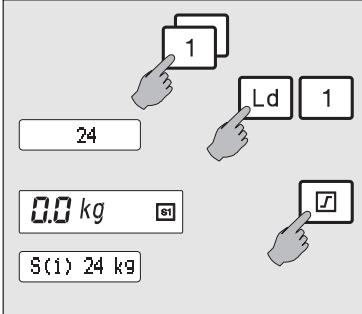
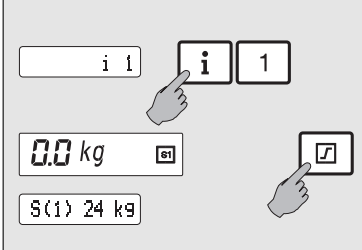
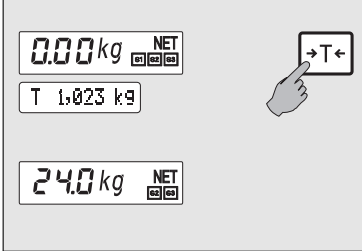
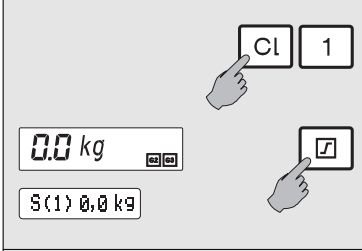
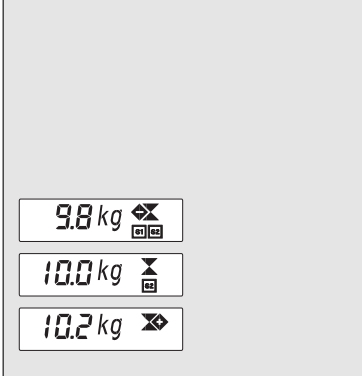
<p>23.56 kg NET T 1.023 kg</p> <p>ΣN 23.56 kg</p> <p>0.00 kg NET Σ</p> <p>T 23.56 kg</p> <p>-2.88 kg NET</p> <p>ΣN 20.68 kg</p> <p>0.00 kg NET Σ</p> <p>T 20.68 kg</p>	<p>Place the filled container on the scale. If the tare is known, enter it manually if necessary and tare the weight. If it is important to determine the weight of the remainder:</p> <p>Transfer the weight value to the totals memory.</p> <p>Press function key "T". The overall weight appears as the tare weight on the secondary display.</p> <p>If parts of original number of pieces are removed, this is displayed with a minus sign in the main display.</p> <p>Determining the remaining quantity</p> <p>If you have transferred the overall weight to the totals memory, you can determine the remaining quantity by pressing the "+" function key.</p> <p>The main display returns to "0" after the "T" function key has been pressed.</p>
<p>ΣN 20.68 kg</p>	<p>Displaying the contents of the totals memory (in the secondary display)</p>
<p>Cl Σ</p>	<p>Clearing the totals memory</p>
<p>Cl →T←</p>	<p>Clear the tare value after removing the items from the scale.</p>
	<p>If a printer is connected the "+" function key and the "Cl/+" key combination activate printing. Printing will take place according to the printing format definition. For more detailed information, see "Printing".</p> <p>When weighing using the removal method the tare sum and the gross sum are not correct.</p>

S 20 – Components weighing

Commissioning is only possible in weighing mode and on one set of scales	
	<p>Tare the container if necessary</p> <p>Place the items to be weighed on the scale.</p> <p>Transfer the weight value to the component weighing memory. The K-mode is indicated by an arrow. Place the next items to be weighed on the scale. Transfer the weight value to the commission memory, etc.</p>
	<p>Place the next items to be weighed on the scale. Transfer the weight value to the commission memory, etc.</p>
	<p>Organisational data (also with minus sign) can be entered by the numeric keyboard.</p> <p>Enter value</p> <p>Transfer to the component weighing memory with „K“.</p>
	<p>Displaying the commission memory and the current number of the component lying on the scale.</p> <p>By holding the K-key the K-, gross- and tare-total are displayed cyclically in the secondary display.</p>
	<p>Clear the total memory and exit the component weighing function.</p> <p>By holding the K-key the K-, gross- and tare-total are displayed cyclically in the secondary display.</p>
	<p>If a printer is connected the “K” function key and the “Cl/K” key combination activate printing. Printing will take place according to the printing format definition. For more detailed information, see “Printing”.</p>

S 20 – Switching and checking in the weighing mode

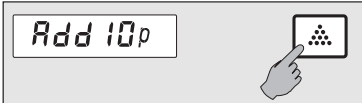
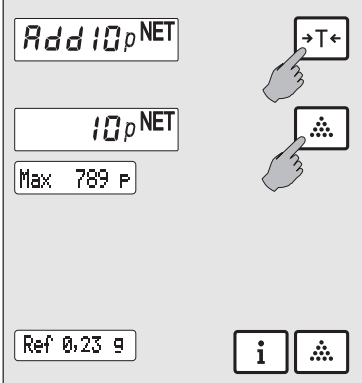



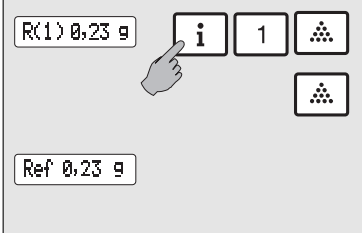

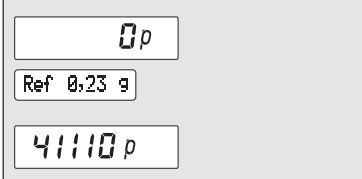
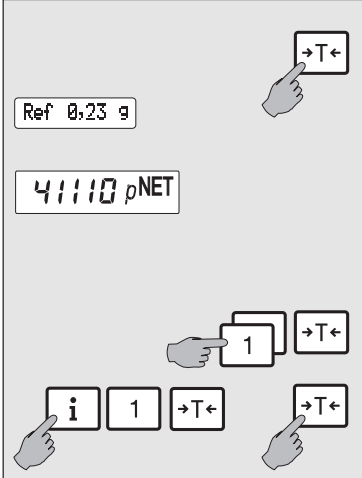

Set points (limit values) can only be set in weighing and counting mode. 3 memories for limit values are available for each connected scale: Entry must be additive, i.e. the weight of first limit value should be added to the second. Limit values affect the net weight.

	<p>Loading memory</p> <p>Enter the value for the set point with the numeric keyboard.</p> <p>Press the "Ld" command key, followed by the number of the memory.</p> <p>Confirm your entry by pressing the function key.</p> <p>Memories 2 and 3 are entered and displayed in the same way.</p>
	<p>Recalling of stored values</p> <p>Press the "i" command key and the number of the memory containing the value you require.</p> <p>Confirm your entry with the " " function key.</p>
	<p>Weighing with limit values</p> <p>Tare the container</p> <p>Place the items to be weighed on the scale.</p> <p>The relevant symbol goes out when the appropriate set point/limit value reached.</p>
	<p>Clearing memory</p> <p>Press the "Cl" command key.</p> <p>Now enter the number of the memory you wish to delete.</p> <p>Confirm your entry with the appropriate function key. Simply overwriting the memory as described under "Loading the memory" also deletes the current value.</p>
	<p>Control weighing</p> <p>Enter the upper and lower tolerance weights as in "Loading memory" in S1 and S2. Place the items to be weighed on the scales. The current weight value and the tendency symbol appear on the main display:</p> <p>Weight is less than set value "S1"</p> <p>Weight is within the tolerance "S1-S2"</p> <p>Weight is greater than set value "S2"</p>

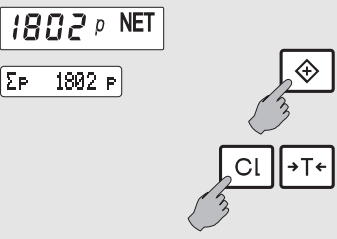
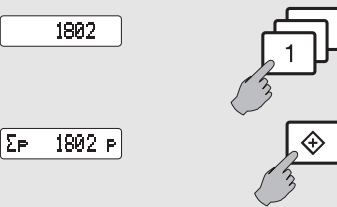
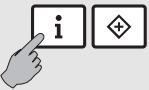
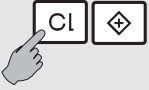
S 20 – Switching and checking in the counting mode

	<p>Loading memory</p> <p>Enter number of pieces for set point with the numeric keyboard.</p> <p>Press the "Ld" command key, followed by the number of the memory.</p> <p>Confirm your entry by pressing the function key.</p> <p>Memories 2 and 3 are entered and displayed in the same way.</p>
	<p>Recalling of stored values</p> <p>Press the "i" command key and the number of the memory containing the value you require.</p> <p>Confirm your entry with the "↵" function key.</p>
	<p>Counting with limit values</p> <p>Tare the container</p> <p>Place the items to be counted on the scale.</p> <p>The relevant symbol goes out when the appropriate set point/limit value is reached.</p>
	<p>Clearing memory</p> <p>Press the "Cl" command key.</p> <p>Now enter the number of the memory you wish to delete.</p> <p>Confirm your entry with the appropriate function key. Simply overwriting the memory as described under "Loading the memory" also deletes the current value.</p>
	<p>Control weighing</p> <p>Enter the upper and lower tolerance number of pieces as in "Loading memory" in S1 and S2. Place the items to be counted on the scale. The current number of pieces and the tendency symbol appear on the main display:</p> <p>Number of pieces is less than set value "S1"</p> <p>Number of pieces is within the tolerance "S1-S2"</p> <p>Number of pieces is higher than set value "S2"</p>

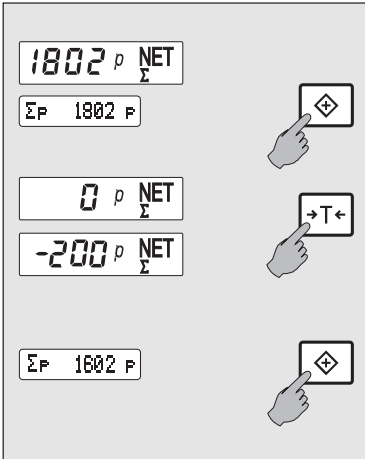
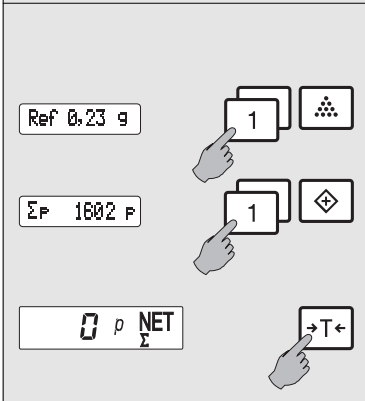
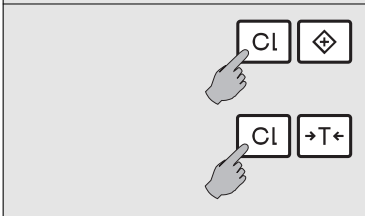
S 20 – Counting

	<p>Switch the scale to counting mode.</p>
	<p>Determining the reference weight Tare the empty container if necessary.</p> <p>Place the number of items requested by the scale or enter the reference number of items required by the numerical key board, take over with key , place entered number of items on the scale and press the " " function key. The average weight of one item is calculated. The maximum number of pieces to be counted without error appears in the secondary display.</p> <p>If the items are very light, more will be requested. The display counts backwards to zero as the items are placed on the scales. Now press the count key again.</p>
	<p>Displaying the reference weight</p>
	<p>Entering the reference weight manually in g.</p> <p>Storing the current reference weight The reference weight can be transferred to the current counting procedure by pressing the " " function key a second time.</p>
	<p>Counting</p> <p>The reference weight should be determined, recalled or entered manually.</p> <p>Place enough items to be weighed on the scale so that the required number of pieces can be met.</p>
	<p>Counting with a tare weight</p> <p>If the tare is unknown the empty container should first be tared.</p> <p>After you have switched to the counting mode, the reference weight should be determined, recalled or entered manually.</p> <p>Now fill the container.</p> <p>The number of items will be displayed.</p> <p>If the tare is unknown, the filled container can be placed on the scales immediately after you have switched to counting mode.</p> <p>Recall the reference weight or enter it manually.</p> <p>Enter the tare weight using the numerical keyboard.</p> <p>Call the tare from a tare memory and confirm it.</p> <p>The number of items will be displayed.</p>
	<p>Terminate the counting procedure</p>

S 20 – Totalling quantities

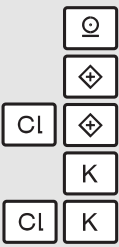
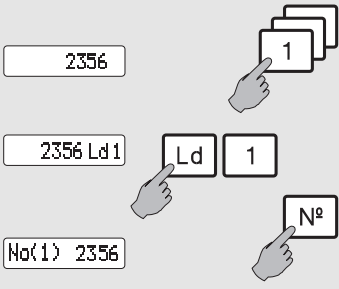
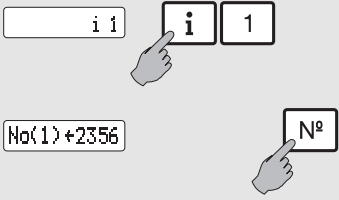
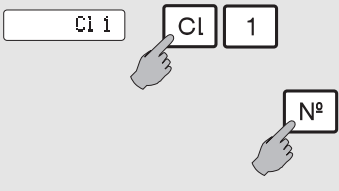

A shared totals memory is available for all scales in counting mode.	
	<p>Determine the number of pieces.</p> <p>Transfer this to the totals memory (in the secondary display)</p> <p>Remove the items from the scale.</p> <p>Clear the tare if necessary.</p> <p>Determine a new tare if necessary. Place the next quantity on the scale. Transfer it to the totals memory, etc.</p>
	<p>Known quantities can be entered manually using the numeric keyboard.</p> <p>Enter the number of pieces.</p> <p>Transfer this to the totals memory.</p>
	<p>Display the totals memory.</p>
	<p>Clear the totals memory.</p>
<p>Totalling weights: gross / tare / net per scale possible.</p> <p>Totalling items: per scale or by all scales connected (see user-mode).</p>	<p>If a printer is connected the "+" function key and the "Cl/+" key combination activate printing. Printing will take place according to the printing format definition. For more detailed information, see "Printing".</p>

S 20 – Removal method

 <p>1802 p NET Σ</p> <p>ΣP 1802 P</p> <p>0 p NET Σ</p> <p>-200 p NET Σ</p> <p>ΣP 1802 P</p>	<p>Unknown number of pieces and item weight</p> <p>Determine the number of pieces (without tare)</p> <p>To determine the remaining number of pieces: transfer the number of pieces to the totals memory.</p> <p>Set the display to zero by pressing the "T" function key.</p> <p>The removal of items is indicated by a minus sign.</p> <p>Press the "+" function key to determine the remaining number of pieces.</p> <p>When you have removed more items, set the display to zero, etc.</p>
 <p>Ref 0.23 g</p> <p>ΣP 1802 P</p> <p>0 p NET Σ</p>	<p>Known number of pieces and item weight</p> <p>Place the filled container on the scale.</p> <p>Enter the reference weight.</p> <p>Enter the number of pieces using the numeric keyboard and confirm your entry by pressing the "+" function key.</p> <p>Reset the display to zero by pressing the "T" function key, then proceed as above.</p>
 <p>Cl</p> <p>Cl</p>	<p>The totals memory must be deleted after all items have been removed from the scale.</p> <p>Clear the tare.</p>
	<p>If a printer is connected the "+" function key and the "Cl/+" key combination activate printing. Printing will take place according to the printing format definition. For more detailed information, see "Printing".</p>

S 200 – Printing

These additional operating instructions apply to the indicator 2761 if a printer is attached or if there is a connection to electronic data processing equipment.

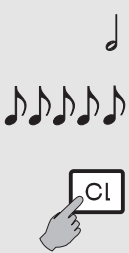




	<p>Key functions</p> <p>Single print</p> <p>Print - add to totals memory</p> <p>Print totals and clear memory</p> <p>Print - add to component weighing memory</p> <p>Print totals and clear memory</p>
	<p>Entering organisational data</p> <p>A 40- digit number can be assigned to each memory of the three organisational data memories.</p> <p>Enter the data using the numeric keyboard.</p> <p>Press the "Ld" command key.</p> <p>Now enter the number of the memory where you want to store the value.</p> <p>Confirm your entry by pressing the "No" function key.</p>
	<p>Recalling stored data</p> <p>Press the "i" command key and the number of the memory containing the value you want.</p> <p>Confirm your entry by pressing the "No" function key. If an arrow appears, the number is too long to be displayed.</p>
	<p>Clearing stored data</p> <p>Press the "Cl" command key.</p> <p>Then enter the number of the memory you want to delete.</p> <p>Confirm your entry by pressing the "N²" function key.</p> <p>Simply overwriting the memory as described under "Entry" also deletes the current value.</p>
	<p>Print with higher resolution</p> <p>-for scales with internal use-</p>

Parameters for printer and interface configuration, data and time and much more are permanently stored in an internal memory. Access to user modification is by means of the keyboard and LCD display.

		<p>Activating user modification</p> <p>Press the "i" key and "On/Off" at the same time.</p>
		<p>User modification functions</p> <p>Calibration step selection, forwards</p> <p>Calibration step selection, backwards</p> <p>Moving the tens column forward within a program step, from left to right</p> <p>Moving pre-assigned values forward</p> <p>Confirm and transfer the value of the main indicator and proceed to next CAL step.</p> <p>Enter/overwrite values /date,etc.) with the numeric keyboard. Enter the digits in the flashing tens column.</p> <p>Store changes and return to weighing mode.</p> <p>Main display shows the CAL step and the pre-assigned value for tape printer.</p> <p>Secondary display shows help text to guide the user.</p>

CAL-Step	Standard settings	Secondary display
1	Hour/Minute	Time
2	Day/Month/Year	Date
3	0=DD.MM.YY 1=MM.DD.YY	Print type
4	00050	empty message
5	0	TAadd.
6	2	Default weighing value
7	3	Default counting value
8	10	Ref. pc.
9	09600	Baudrate
10	0	Parity
11	3	7/8 Bit
12	0	CR/LF
13	0	STX/ETX
14	1	DIM.on
15	0	Dec.
16	0	EDP
17	2	Printer
18	1	Backlight on/off
19	Enter Code-No. as described in print image definition	P- key
20	dto.	+ - key
21	dto.	CL+ - key
22	dto.	K- key
23	dto.	CLK- key
24	dto.	EDP- D
25	2	Timer
26	0	Reset Serial.-No.
27	-	not relevant
28	1	Optimization of number of pieces

S 20 – Malfunctions Causes and how to eliminate them

	Indicator	Remedy
	<p>An acoustic signal confirms that entry was correct</p> <p>Incorrect entries are indicated by 5 acoustic signals in swift succession.</p>	<p>Check that your entry is correct - if necessary interrupt the command sequence by pressing "C" or "Cl".</p>
	<p>The scale sets the value zero automatically when it is switched on. If the scales are outside the set tolerance range, -0- is displayed.</p>	<p>Remove the items from the weighing platform. Remove any dirt. If the scales do not indicate zero after a couple of seconds, you should contact your service partner.</p>
	<p>Underload: only the bottom horizontal lines appear on the display.</p>	<p>Switch the scales off and on again. The zero point will be reset automatically.</p>
	<p>Overload: Only the top horizontal lines appear on the display. The maximum weighing range has been exceeded.</p>	<p>Remove some of the items to be weighed from the scales.</p>
	<p>Weight of item too light.</p> <p>The zero setting range has been exceeded</p> <p>Taring is not possible in case of over- or underloaded balance</p> <p>Printing is not possible in case of over- or underloaded balance.</p> <p>kg / lb conversion is blocked</p> <p>Totals memory occupied - must be cleared before commutation -</p> <p>The connection between the reference scale and the indicator is disturbed</p> <p>Plug and reference scale are not identical.</p>	<p>In case of all error indications: Please contact your service-partner.</p>

S 20 – Technical information

- The housing is made from pressure-moulded, powder-coated aluminium (RAL 9006)
- Dimensions 258 x 193 x 73 mm
- Protection type IP 65, dust proof and splash-proof
- Operated by means of a tactile keypad with acoustic acknowledgement
- Mains operation with power supply unit, 230 V 50-60Hz, approx. 20VA
- Operating temperature -10° -...- +40°C
- Storage temperature -40° -...- +70°C
- Resetting range -1% -...- +3% of the weighing range
- Resetting range at power-on: -5% ... +15% of the weighing range
- All data is stored securely against power failure
- Serial RS232 (V24) interface bi-directional (please ask for an interface description)
- Signal output of the set values by means of an open100 mA, 50 V collector for connection to a controller

S 20 – Product support

If you have any questions about your Soehnle weighing system, you should first refer to the documentation for the product. If your questions are still unanswered, contact your local Soehnle service partner or talk to the manufacturer directly.

Your Soehnle-Partner



Soehnle-Waagen GmbH + Co.
Customer Service Department
P.O. Box 126

D-71535 Murrhardt

Tel. 0 71 92/28-1
Fax 0 71 92/28-601

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