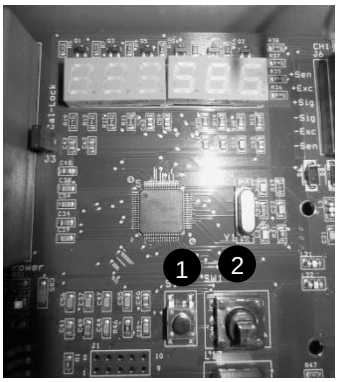
WEA-Base Quick Guide

Parameter set-up

This quick guide deals only with the setting up of parameters of the WEA-Base weight transmitter. For more information refer to the weight transmitter user manual.

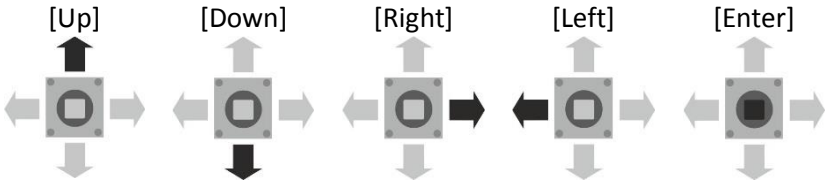
Operation

To navigate the parameters menu (see "Parameter menu: Calibration"), use push button S1 and joystick SW1.



❶ Push button S1: Back [Escape]

❷ Joystick SW1: SW1 is shown with the following symbols:



To access the parameters menu, press [Enter].
To exit the menu, press [Escape], until the display flashes "SAVE".
To save changes, press [Enter].
To exit without saving changes, press [Escape] twice.
"SAVE" will not be displayed if the parameters are unchanged.

NB.: Analogue and digital ouputs are inactive when parameters are being set up

Calibration

Theoretical calibration

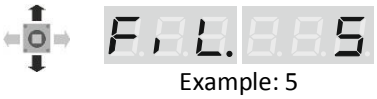
Enter load cell data from the data sheet. Calibration is calculated in the load cell amplifier, based on the data entered.

Deadweight calibration

The scale is loaded with a known weight. It is recommended, that the known weight is at least 70 % of the scale capacity. Once the deadweight calibration is complete, the theoretical values are updated in the load cell amplifier. The theoretical values can be used to transfer the calibration from one load cell amplifier to another.

Calibration parameters

Parameters	Default	Operation	Display	Options
Total number of channels	One channel	Press [Enter] twice for menu 1.1		
		Press [Enter]		
		Move SW1 to [Up] or [Down]. Select the desired number of channels.	 Example: Four channels	1,2,3 or 4
Load cell capacity	100 kg	Press [Enter] twice.		
		Move SW1 to [Down], for menu 1.2.		
		Press [Enter]		
		Navigate to the desired digit by moving SW1 to [Right] or [Left].		
		Set the value by moving SW1 to [Up] or [Down]. Repeat this and the previous procedure for all of the other digits that must be set.	 Example: 1000 kg	
Resolution	0.1 kg	Press [Enter] twice.		
		Move SW1 to [Down] for menu 1.3.		
		Press [Enter]		
		Set the value by moving SW1 to [Up] or [Down]. Example: 0.5.		0.001, 0.002, 0.005, 0.01, 0.02, 0.05, 0.1, 0.2, 0.5, 1, 2, 5, 10, 20 and 50

Parameters	Default	Operation	Display	Options
The scale's capacity	100.0 kg	Press [Enter]		
		Press [Enter]		
		Move SW1 to [Down] for menu 1.4.		
		Press [Enter]		
		Navigate to the desired digit by moving SW1 to [Right] or [Left].		
		Set the value by moving SW1 to [Up] or [Down]. Repeat this and the previous procedure for all of the other digits that must be set.		
Filter	5	Press [Enter]		
		Press [Enter]		
		Move SW1 to [Down] for menu 1.5.		
		Press [Enter]		
		Set the value by moving SW1 to [Up] or [Down].	 Example: 5	1 = Min. filtering 10 = Max. filtering

Deadweight calibration

Deadweight calibration can be done as a zero point calibration or/and as a point calibration.

Parameters	Default	Operation	Display	Options
Zero point calibration		Press [Enter]	 	
		Press [Enter]	 	
		Move SW1 to [Down] for menu 1.6.	 	
		Press [Enter]	 	
		Press [Enter]	 	
		The display flashes, while the calibration is being executed.		
		Press [Enter] when the scale is empty.		
		Continue to "1.6.2 Point calibration", or save the setting. Press S1 [Escape] to "SAVE".	 	
			 	
			 	
			 	
Point calibration Calibration with a known weight		Press [Enter]	 	
		Press [Enter]	 	
		Move SW1 to [Down] for menu 1.6.	 	
		Press [Enter]	 	
		Move SW1 to [Down] for menu 1.6.2 "Point calibration"	 	
		Press [Enter]	 	

Parameters	Default	Operation	Display	Options
		Place a known weight on the scale. NB: It is recommended, that the known weight is at least 70 % of the scale's capacity.		
		Navigate to the desired digit by moving SW1 to [Right] or [Left].		
		Set the value by moving SW1 to [Up] or [Down]. Repeat this and the previous procedure for all of the other digits that must be set.	  Example: 8110 kg	
		Press S1 [Escape] to "SAVE".	       	

Theoretical calibration

Only active load cell channels can be selected. The values in "Theoretical calibration" are updated automatically after a "Deadweight calibration" and can be used as a backup or to transfer a calibration from one transmitter to another.

Parameters	Default	Operation	Display	Options
Channel (theoretical zero point)	0mV/V	Press [Enter]	 	
		Press [Enter]	 	
		Move SW1 to [Down] for menu 1.7. "Theoretical zero point".	 	
		Press [Enter]	 	
		Press [Enter]	 	1,2,3 or 4.
		Set the desired channel by moving SW1 to [Up] or [Down].	 	
		Press [Enter]	 	

Parameters	Default	Operation	Display	Options
		Enter zero point mV/V. The zero-point is calculated on the basis of the load cell's capacity, described in the data sheet. Navigate to the desired digit by moving SW1 to [Right] or [Left].		
		Set the value by moving SW1 to [Up] or [Down]. Repeat this and the previous procedure for all of the other digits that must be set.		

Parameters	Default	Operation	Display	Options
Channel (Theoretical amplifica-tion)	2 mV/V	Press [Enter]	 	
		Press [Enter]	 	
		Move SW1 to [Down] for menu 1.7.	 	
		Press [Enter]	 	
		Move SW1 to [Down] for menu 1.7.2.	 	
		Press [Enter]	 	
		Set the desired channel by moving SW1 to [Up] or [Down].	 	
		Press [Enter]	 	
		Enter load-cell amplification from data sheet. Navigate to the desired digit by moving SW1 to [Right] or [Left].		
		Set the value by moving SW1 to [Up] or [Down]. Repeat this and the previous procedure for all of the other digits that must be set.		

Parameter menu: Calibration