Programming of multifunctional control unit in short steps

Before starting read the whole manual to the multifunctional control unit!
Make sure that the electric power supply is correct and safety before starting with the calibration!

CALIBRATION:

With the arrow key you can choose between kg/ha, kg total, ha, km/h after each calibration

1. programming kg/ha
    The diode by **kg/ha** has to flash green.
    - Press SET button for 2 seconds.
    - The Kilogram-by-hectare value will be displayed, and the display will start to flash. (e.g. 10 kg = 10,0 enter)
    - The value can now be changed by pressing up-arrow or down-arrow.
    - Press SET button to accept the new value (The display will stop flashing).
    - By pressing RESET button the value is not accepted and you are leaving the setup-routine, the value is not changed.

2. programming of motorsenor on the magnetwheel
    The diode by **kg total** has to flash green.
    - Press the SET button for 2 seconds, this will activate the calibration function.
    - The display is now showing the calibration value (the display is flashing). The calibration value is in gram-by-pulse [set gramm/motor pulse to 1,00].
    - Press SET to activate the motor feeding.
    Note! The ON/Auto-switch must be in off-mode when entering this new state, else the ON-led will flash telling you to turn of the switch.
    - The motor can now be turn on by switching the motor-switch to ON.
    - Feed out seed for measurement, the display will show you the value of the outputted seed with the current calibration value in kilograms *[kg]*.
    - Measure the seed you have put out, and adjust the value on the display with the up and down button. The value is showed in kilogram, with three decimal.
    - Accept this value by pressing SET button.
    - The now corrected calibration value will be displayed. Press SET to accept this value, this will finish the calibration procedure.
    - You can always abort a current calibration by pressing the RESET button.

3. programming of the working wide
    The diode by **ha** has to flash green.
    - Press SET button for 2 seconds.
    - The working-width value will be displayed, and the display will start to flash. (e.g. 6 meter = 600 enter)
    - The value can now be changed by pressing up-arrow or down-arrow.
    - Press SET button to accept the new value (The display will stop flashing).
    - By pressing RESET button the value is not accepted and you are leaving the setup-routine, the value is not changed.

4. programming of speedsensor
The diode by **km/h** has to flash green.
- Press the SET button for 2 seconds, this will activate the calibration function.
- The display is now showing the calibration value (the display is flashing). The calibration value is millimetre/speed-pulse *[mm/speed-pulse]* from impulse to impulse or from bolt head to bolt head
  (e.g. 430mm way = 430 enter; maximum 500mm – but minimally 1 !!).
  Calculate the way as follows:
  You have, f.e., a wheel with a diameter of 2m. The wheel amplitude (Amplitude=Diameter x 3,14 => A=6,28) is 6,28m=6280mm. The maximum distance from Impulse to Impulse has to be under 500mm. As a fact of this (6280/500=12,56) you need MINIMUM 13 signals. Better to use about 20 signals. It doesn´t matter if the signals are mounted with a distance of 30mm (near the middle of the wheel) or 300mm (more outside the wheel). You have to mount 20 signals.
  The value you put now into the control unit is the estimated driven way from signal to signal. In this case put in (6280/20=314) 314mm=314.
- Press SET and drive a known length, example 100 metres, the display will show you how far you have driven with the current calibration value in metres *[m]*.
- If the display is showing you the wrong driven length, change the length by pressing up or down. It will show you the length in metres, with one decimal.
- Press SET when the value is the same as the length you have driven.
- The current and changed calibration value will be displayed.
- Accept this value by pressing SET button again, this will finish the calibration procedure.
- You can always abort a current calibration by pressing the RESET button.

The programming is now finished
Press the rocker switch in position „AUTO" and the seeder machine will be driven automatically.