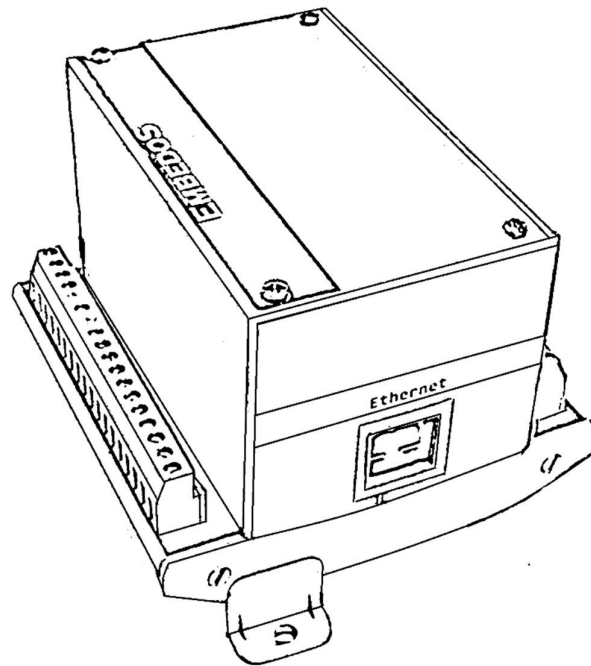


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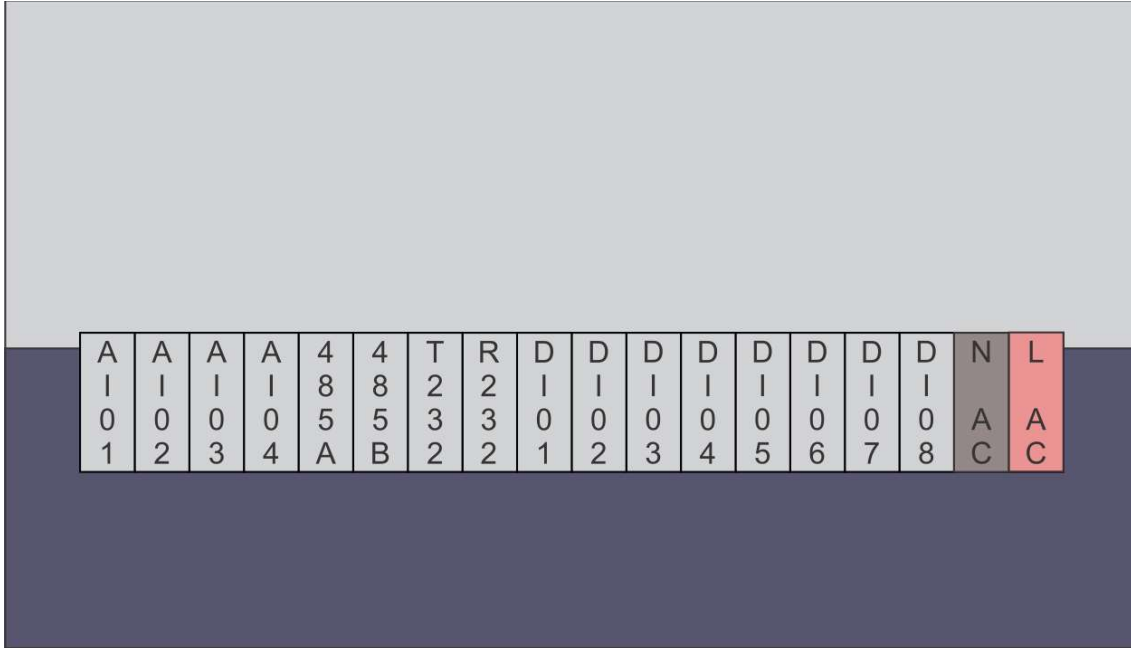
Reach Height Display User Manual



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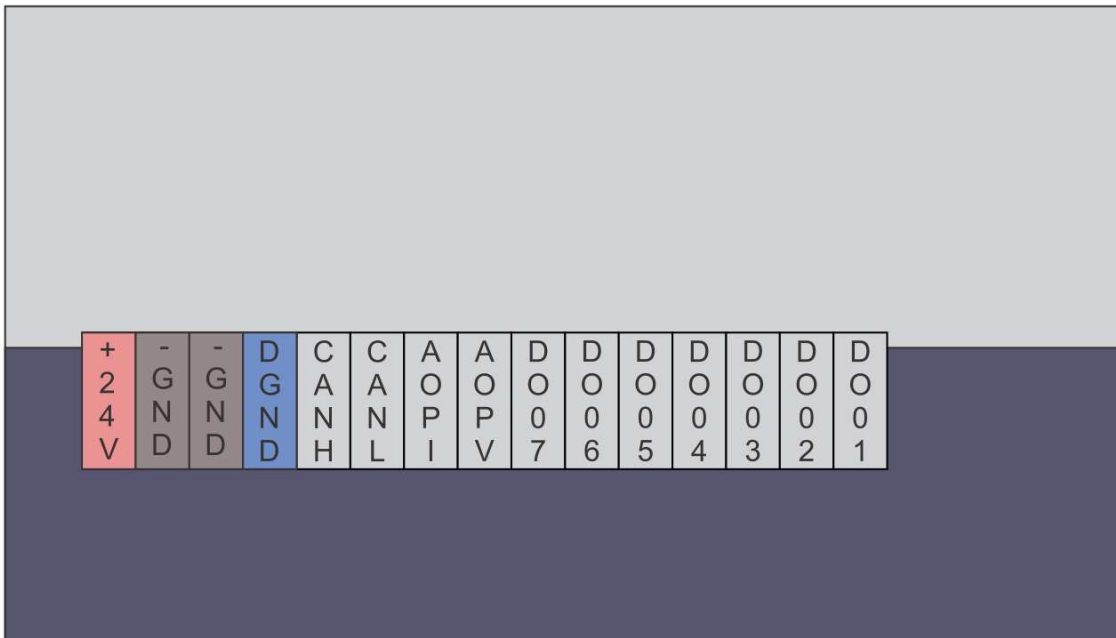
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1. Connection Details



Pin Label	Function	Alternate Function
AI01	Analog Inputs	
AI02		
AI03		
AI04		
485A	RS-485 Comm. pins	
485B		
T232	RS-232 Tx	N/A
R232	RS-232 Rx	N/A
DI01	Digital Input 1	Sensor Input 1
DI02	Digital Inputs	
DI03		
DI04		

DI05	
DI06	
DI07	
DI08	
N AC	230V AC Input Power Supply
L AC	



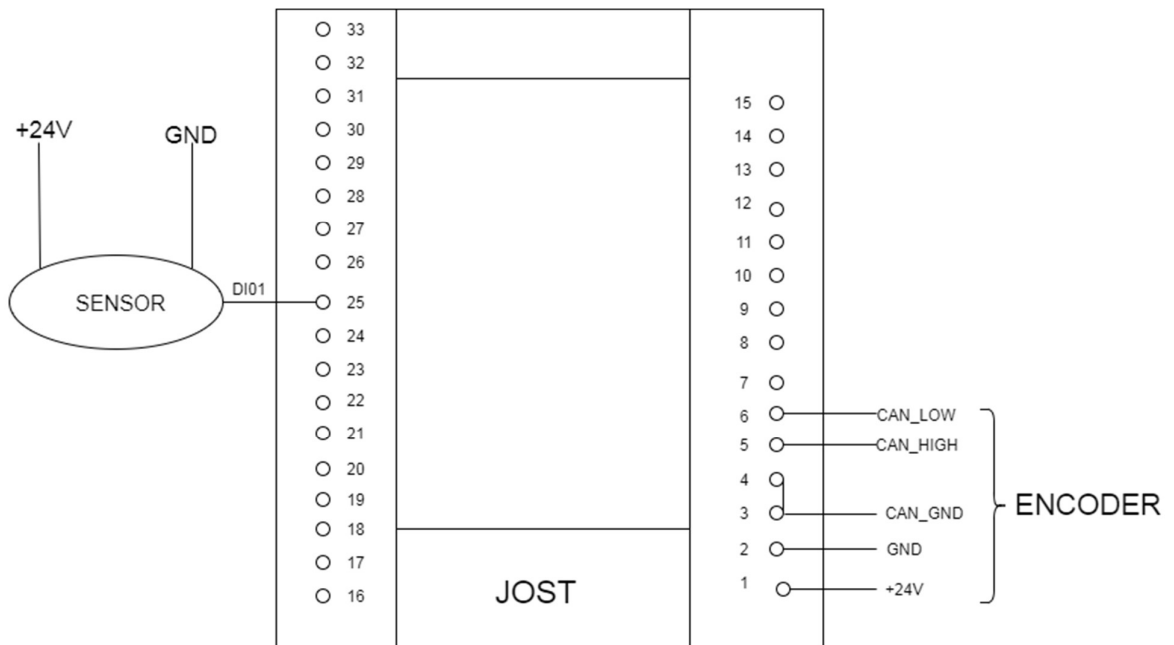
Pin Label	Function	Alternate Function
+24 V	24V DC Input Supply (Optional)	
GND		
GND		
DGND	Digital GND	N/A
CANH	CAN High and Low Pins	
CANL		
AOPI	Analog Output (Current)	N/A
AOPV	Analog Output (Voltage)	N/A

DO07	Digital Outputs
DO06	
DO05	
DO04	
DO03	
DO02	
DO01	

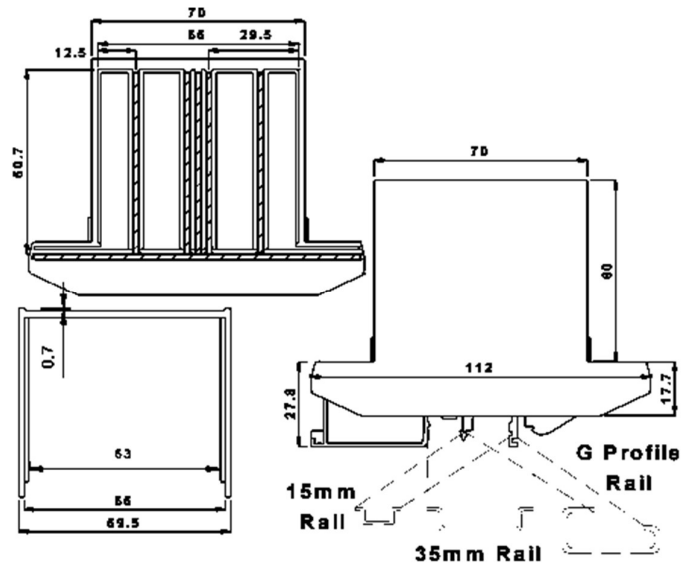
2. Electrical Characteristics

Parameter	Min	Avg	Max	Unit
Supply Voltage	10	24	30	V DC
Input High Level	10	24	30	V
Input Low Level	0	0	1	V

3. Wiring Diagram

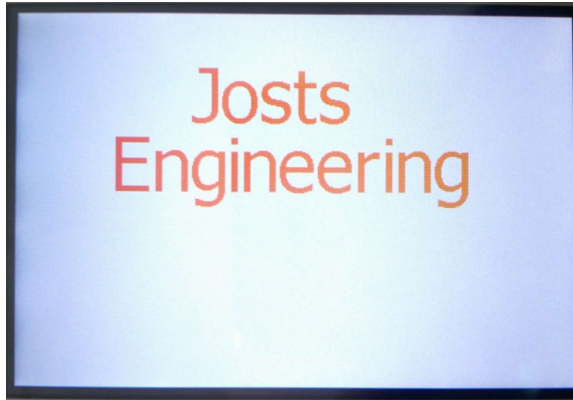


4. Dimensions

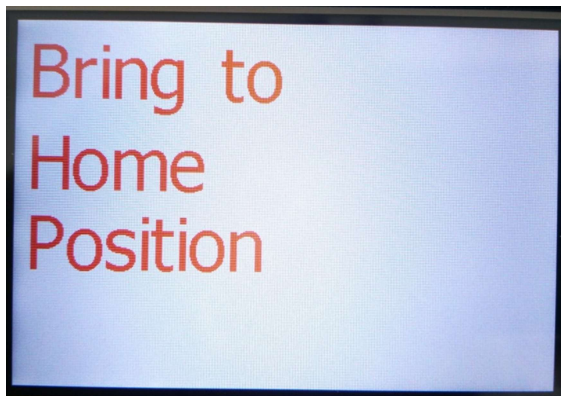


5. Configurable Options

- 5.1 Start-up Screen



✓ This is the screen which loads on boot-up.



✓ When a home positioning pulse is received from the output of Sensor1, the main page will be displayed showing the Home-Set value. This is the value that was saved to the system initially. It should be updated to actual prior to calibration.

- 5.2 Main Display Page

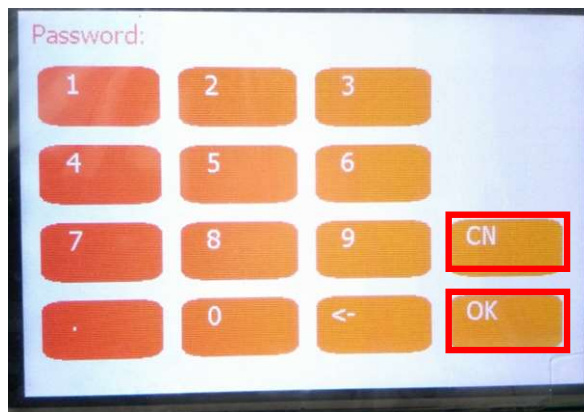


- ✓ Main Screen where the Position value will be displayed.
- ✓ Position shown with unit as selected.
- ✓ Settings Button to configure various setting options as described in the next section.

- 5.3 Settings



Settings Button on click leading you to a password protected page.



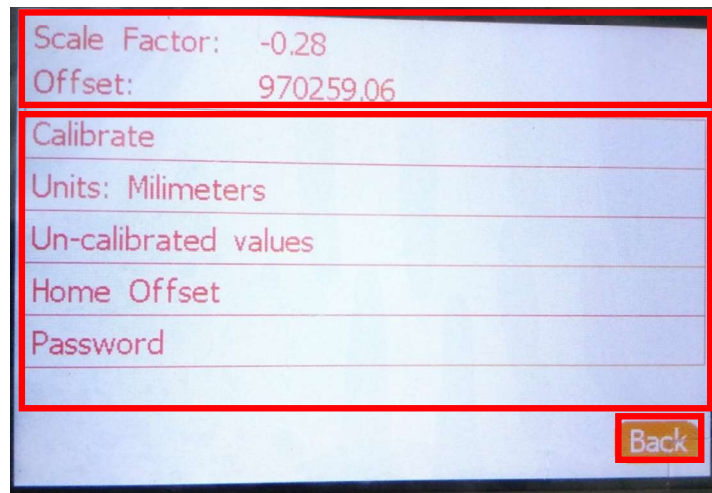
Press 'CN' to cancel and go back to main display page

Press to continue.

- ✓ Enter Password and press 'OK' to continue.
- ✓ Press 'CN' to go back to the main display page.
- ✓ On correct entry of password, it will lead you to the Settings page.



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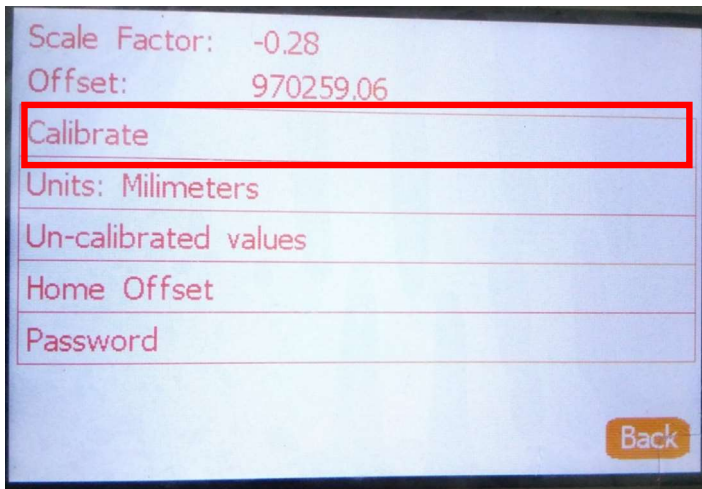
Internally calculated accd. to the calibration value.

Various options for configuration.

Leads you to main display page.

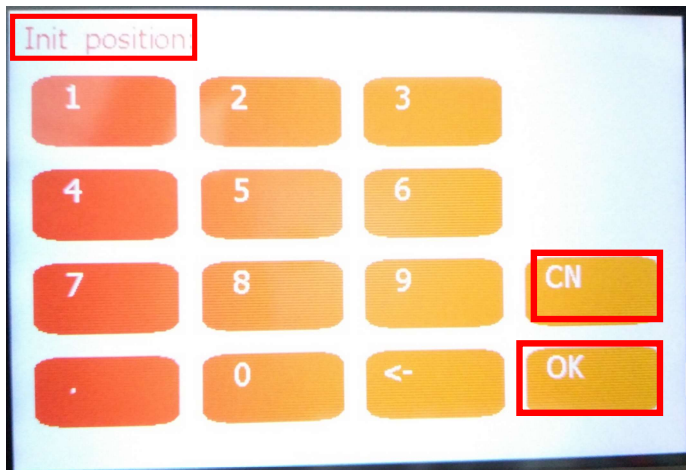
- ✓ Various Sub -Setting Options for configuration: Calibrate, Units, Un-calibrated values, home-offset, Password, each leading to its respective screens as described below.
- ✓ Back button: which on press, leads you to the main page where the position value is being displayed.

- 5.4 Calibration



Click 'Calibrate' to set Calibration Value.

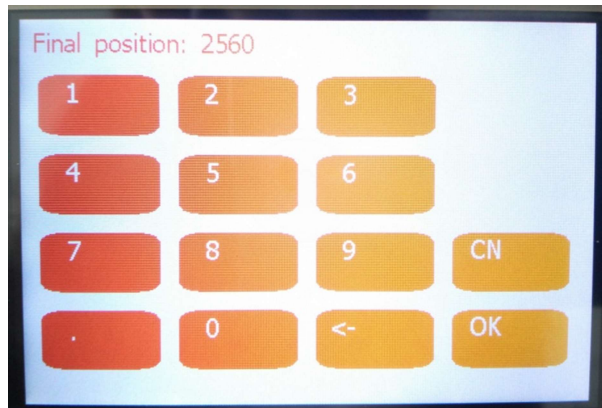
Initial Position Screen



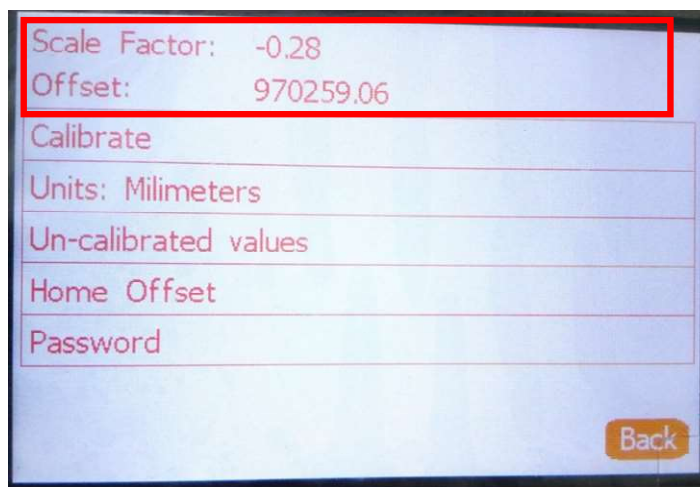
Click 'CN' to cancel and go back to main display page.

Click 'OK' to set Calibration Value.

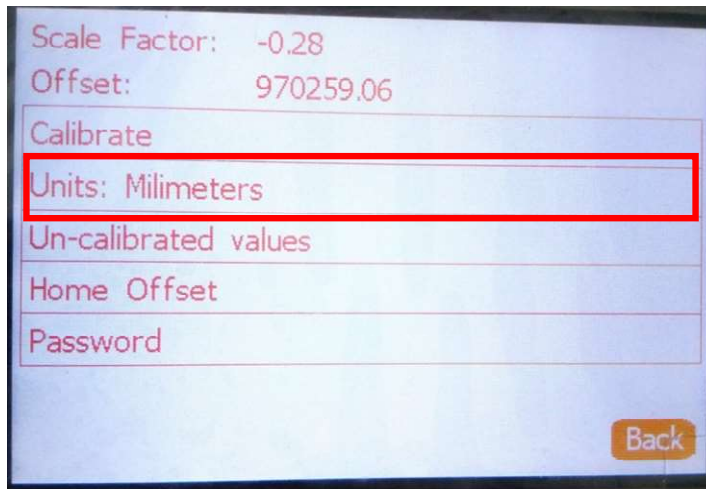
Final Position Screen



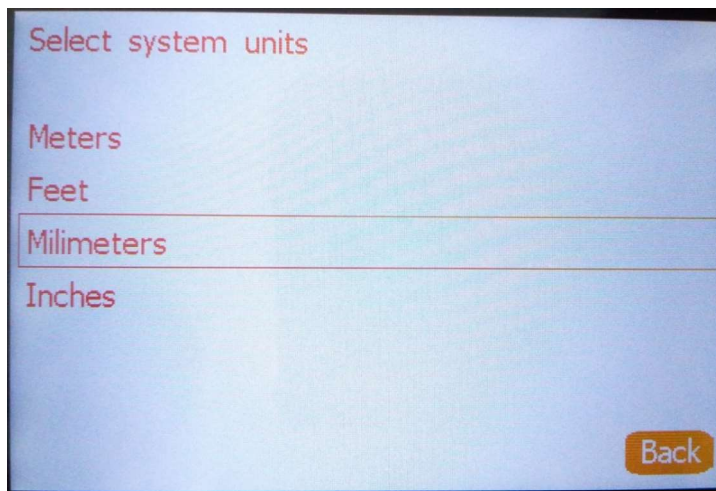
- ✓ Calibrate option for calibrating the device position value with the encoder value.
- ✓ Rotate the encoder to the initial most position and enter the desired position value.
- ✓ Click OK to proceed to the next screen or click CN to cancel calibration and go to the main Position Display page.
- ✓ Rotate the encoder to the maximum position and enter the desired value on the final position screen. Click OK to finish calibration or CN to cancel calibration and go to main display screen.
- ✓ When the value is set, it internally calculates the Scale Factor (i.e. the multiplication factor) and the Offset value (i.e. the +/- value), which is displayed on the main settings page.



- 5.5 Unit Selection

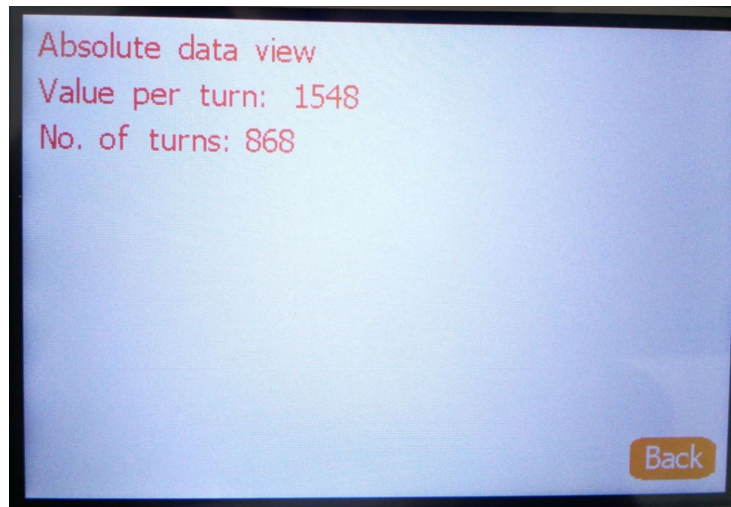
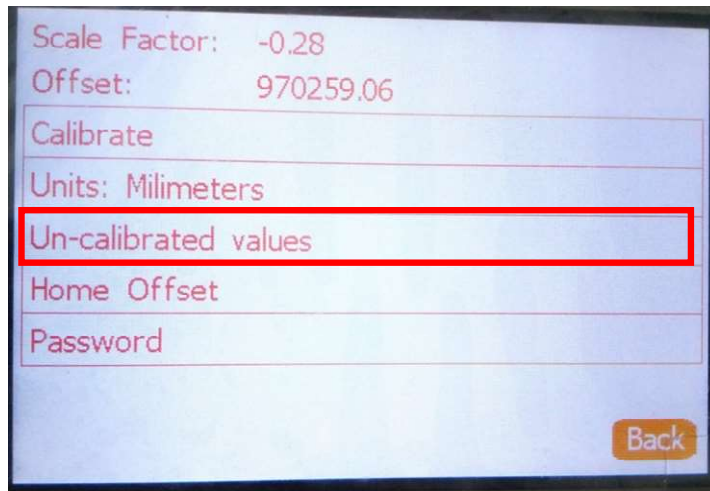


Click 'Units' to set the desired unit. The selected unit will be displayed next to the units option, as shown.



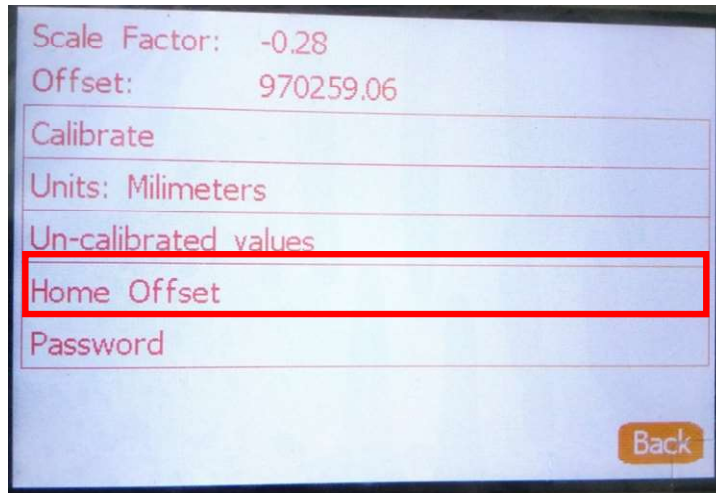
- ✓ Select the Unit from various available options- Meters, Feet, Millimetres, Inches as required.

- 5.6 Un-Calibrated Values



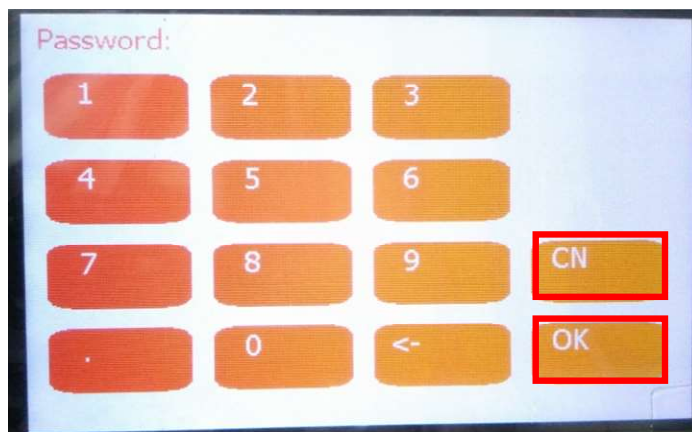
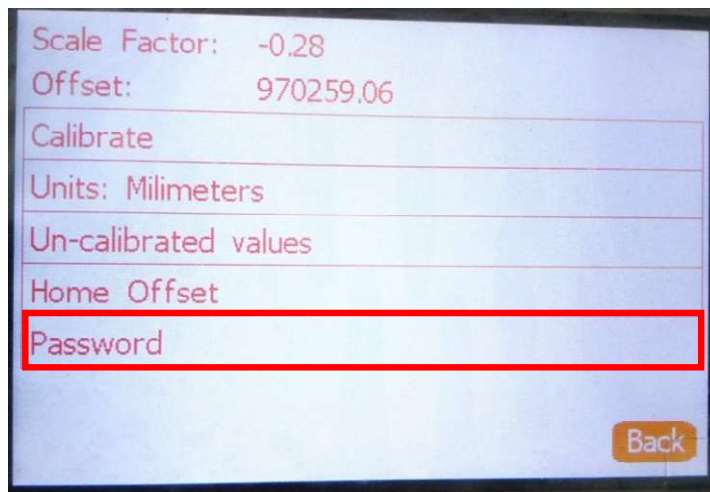
- ✓ Un- Calibrated Values displays the real values neglecting the value set under Calibration settings.

- 5.7 Home-Offset



- ✓ This Screen basically allows you to set the Initial Home Offset value which will be displayed when a pulse is given on its respective input pin.

- 5.8 Password Change



Press 'CN' to cancel password change and return to main display.

Press 'OK' to save password change.

- ✓ This screen allows you to change the password which is required to configure Settings.
- ✓ Password can only be numeric with a maximum of 8 digits.
- ✓ Enter the password and press OK.

6. Contact Details

For any other information / clarifications, please mail us at info@embedos.io.

