ForceCheck Wired and Wireless Display Manual 461.110M

Overview

The display is designed for use in conjunction with chuck and drawbar force sensors. Two versions are available: wired and wireless (depending on the type of sensor used).

Getting Started

Wireless: turn on the sensor.
Wired: connect the sensor to the display using the supplied cable.

Press display's On/Off button. The unit will briefly display the calibration due date for the sensor.

From this point, follow instructions for the particular sensor in use.

When finished, Press On/Off to power down the display. For wireless sensors, the sensor must be powered down separately.

Wireless: The display can only communicate with one sensor at a time. The display will connect to the first sensor detected. To switch sensors, simply turn off the first sensor and turn on the second. The display will automatically connect to the second sensor.

Zeroing the Display

The display will automatically zero on powerup. If needed, the display can be re-zeroed at any time by pressing the Zero button.

When peak force display is enabled, pressing the Zero button will also reset the stored peak value.

Battery Replacement

The display uses a standard 9V battery. To replace the battery, open the compartment on the back side. A rechargeable battery can be used.

Calibration

Unlike our force sensors, the display does not require calibration. However, firmware updates will be available from time to time.

Specifications

Weight: 176 grams / 6.2 oz
Dimensions: 130x65x25 mm / 5.1x2.6x1.0 in
Operating Temperature: 10-32˚ C / 50-90˚ F
Battery: Standard 9V
Environmental Protection: While the display has basic protection from dust, etc., the unit should be kept clean and dry to prevent damage to internal components.
Wireless Only:
Transmit/Receive Frequency: 2402-2480 MHz
Transmit/Receive Range: 20 m / 66 ft

Useful Conversion Factors

1 kN = 1,000 Newton (N)
1 N = 0.2248 pound-force (lbf)
1 lbf = 4.448 Newton (N)
1 N = 0.102 kilogram-force (kgf)
1 N = 0.102 kilopond (kp)

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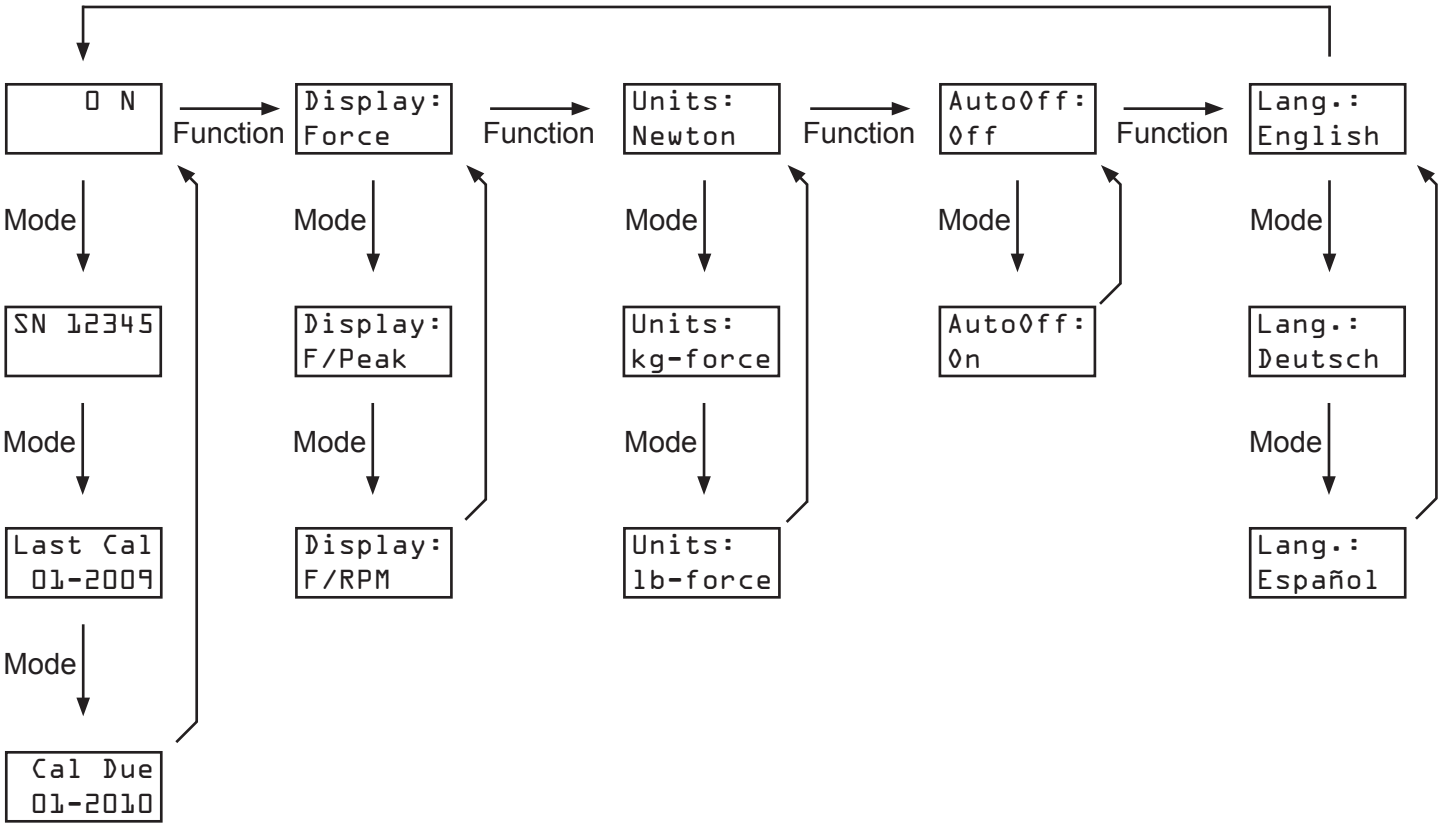
The display has several options that can be selected using the Function and Mode buttons. The chart below outlines the display's menu structure.



Display Key

Force: Display measured force only

F/Peak: Display current measured force over peak force.

F/RPM: Display current measured force over RPM (only active for wireless sensors with RPM measurement capability).

Units:
Newton: Newtons (1 kN = 1,000 N)
kg-force: kilogram-force (equivalent to kilopond)
lb-force: pound-force

Language: English, Deutsch, Español.

AutoOff: With AutoOff "On", the display will automatically turn itself off after approximately 1 minute of inactivity.

During normal operation, information on the connected sensor can be obtained by pressing the Mode button. The following are shown sequentially:

SN: Sensor serial number.

Last Cal: Date sensor was last calibrated.

Cal Due: Date sensor is due for calibration.

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