Autoline Speed Operating Instructions

Features

Continuous speed readout
Automatic calibration
Measures at up to 100 km per hour

Up   Down   Mode   On/Off

Specifications

Minimum Speed Threshold	0.1 km per hour
Power Supply	+12/24 VDC
Maximum Supply Voltage	+30 VDC
Typical Supply Current Consumption:	40mA
Operating Temperature Range	$-5^{o}C$ to $+60^{o}C$

Default Settings

Encoder Calibration Factor: 200 pulses/metre
Minimum Encoder Calibration: 15 pulses/metre
Maximum Encoder Calibration: 600 pulses/metre

Calibration

The Autoline Speed must be calibrated to the encoder on the vehicle.   Calibration can be done manually or automatically. Follow the instructions below to calibrate the Autoline.

Manual Calibration (NCAL)
1   Turn the Autoline off.
2   While holding down the Mode (M) button, press and release the On/Off button. The unit will flash between the normal calibration (NCAL) and the calibration value entered (default value 200 pulses/metre).
3   Use the Up/Down button to manually change the calibration value.
4   Save the setting by holding down the Mode (M) button until PROG appears. Release the Mode button and the Autoline will turn itself off. It is now ready for use.

Auto Calibration (ACAL)
1   Measure and mark out a 50 metre line.
2   Position the vehicle approximately 1 metre behind the start line and select a reference point on the vehicle to start/stop the calibration.
3   Turn the Autoline off.

4   While holding down the Mode (M) button, press and release the On/Off button. The unit will flash between the normal calibration (*NCAL*) and the calibration value entered (default value 200 pulses/metre).

5   Press the Mode (M) button once again. The unit will flash between *ACAL* and the calibration value entered.

6   Start driving. Immediately the reference point is on the starting line, press the On/Off button. The display will now show *REDN*.

7   Drive the measured distance. Press the On/Off button when the vehicle reference point is on the finish line.

8   As soon as the On/Off button is pressed, the Autoline will calculate and display the new calibration value for the measured distance.

9   Save the setting by holding down the Mode (M) button until *PROG* appears. Release the Mode button and the Autoline will turn itself off. It is now ready for use.

Note: If the calibration value is below the minimum value (15 pulses/metre) or above the maximum (600 pulses/metre) an auto-calibration error message will be displayed (*E AC*).

Aborting Calibration
Hold down the On/Off button until *ABRT* is displayed. Then release the On/Off button. The unit will now be off.

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Shut Down the Autoline
Press the On/Off button at any time to turn off the Autoline.

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System Accuracy
Accuracy of the system is dependent on the encoder and the system calibration.

Load Factory Default Settings
Turn the Autoline off
Press the Up, Mode and On/Off buttons at the same time. Release all the buttons when the LCD display shows *LOAD FACT DEF*. The settings will reload and the unit will turn itself off.