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## Autoline Speed Operating Instructions V1.0

### Features:

- Continuous speed readout
- Displays from 10 metres/hr to 100 kilometres/hr
- Displays in Meters, Feet, Yards
- Built in user settable speed alarm function
- Automated calibration wizard
- Excellent daylight visibility
- Soft green backlighting for night use
- Weather cover



### General – Specifications

Minimum speed threshold	10m per hour
Power supply	+12/24 VDC
Maximum supply voltage	+30 VDC
Typical supply current consumption:	70mA
Operating temperature range	-5°C to +60°C
IP rating	IP67 from the front provided the unit is mounted so the back is protected from moisture

### Factory Default Settings

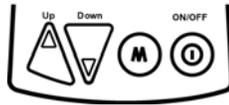
- Encoder Calibration Factor: 100 pulses/metre
- Encoder pulses can be in the range 5 – 1000 pulses/metre
- Units are in Metres
- Speedo display is in Km/hour
- Speed alarm is off
- Backlight is on at full intensity

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## Setting up a new unit

1. Set operating units
2. Set speed display units
3. Set calibration for encoder
4. Enable and adjust the speed alarm if needed

### Using the Autoline buttons in the menus



To access the set up menu turn the unit off by pressing and holding the  button for 3 seconds

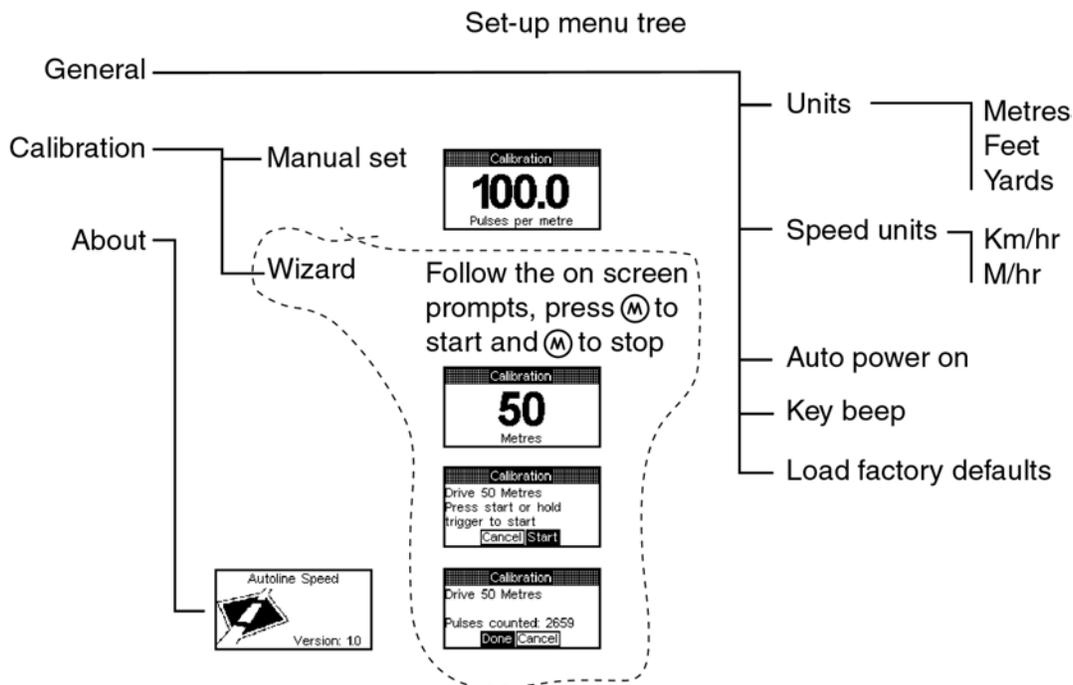
Hold together the  +  buttons and release to display the set up menu

Use the  buttons to navigate menus and make numerical adjustments

Use the  button to select the next menu or to  check/uncheck/save the item

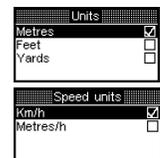
Navigate to the setting requiring to adjustment, (see exploded view of menu below)

Then exit/escape using the  button



### Set the operating units

Navigate to General and units to select the required operating units; Meters, Feet or Yards. There is also an option to display the reading in Km/hr or M/hr for slower specialised applications. Use the "M" and on/off buttons to save the new settings and exit.



### Auto power on

This option simply means the display will always be on when the power is applied.

### Load Factory Default Settings

Restores the unit to the original factory settings, all user settings will be replaced.

## Calibration

Navigate to calibration and select "Manual set" or "Wizard"

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

### Automated calibration wizard

1. Accurately measure out and mark out a calibration distance. (We recommend at least 30metres)
2. Select a reference point on the vehicle to start/stop the calibration and align the vehicle to the start mark.
3. Having selected the wizard the first thing needed is to adjust is the calibration distance to be used

Then:

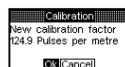
4. Press button to start the process
5. Select "Start" and Press again



6. The display will now show pulses being counted



7. Drive the measured distance. Press the button when the vehicle reference point is on the finish line and the job is done.



8. Use the and on/off buttons to save the new setting and exit.

### Manual Calibration

1. Navigate to "Manual set" use the buttons to change the calibration value.
2. Use the and on/off button to save the new setting and exit.

### Other user settings

Can be accessed by pressing the button during normal operation



### Speed Alarm

This function is designed to assist with application rates and QA

This can be set to "off" or to a target speed value with the buttons



The allowed speed margin can be adjusted with the buttons

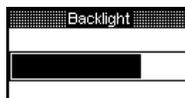


Example speed alarm results:



### Backlight

Can be adjusted by the operator using the buttons to suit light current light conditions



### To shut Down the Autoline

Press and hold the On/Off button for 3 seconds at any time to turn off the Autoline.