User Manual

Electronic Speedometer

Model: TD140ATC

The truck Speedometer works with Inductive & Hall Effect Speed Senders.
Speedometer connectors are compatible with new electronics Tachographs.
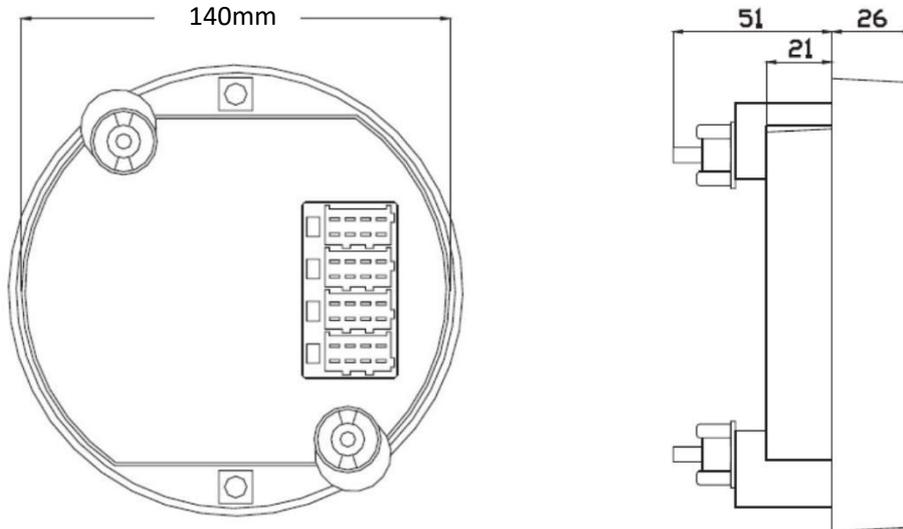
Main Features

1. Digital Speedometer
2. Mileage Programmable
3. Calibration(pulse/km) Programmable
4. Overspeed Buzzer Alarm Programmable
5. Hall Effect Speed Sensor Support
6. Installation Diameter:140mm
7. Speed Range: 0~125km/h
8. Mileage: 0-999999.9 km
9. 12/24V DC Compatible

Tech Details

All connectors are compatible with ISO 16844-1 standard

Supply voltage:	**9~36VDC**
Speed indication range:	**125km/h**
Installation Size	**140mm**
Calibration regulation range:	**1000-65535**
Operating temperature range:	**-40℃ ~ +85℃**
Odometer indication range:	**0-999999.9**
Dimensions:	**150x150x77 mm**

Dimensions

Functions

1. ODOMETER
   A. Total mileage programmable.
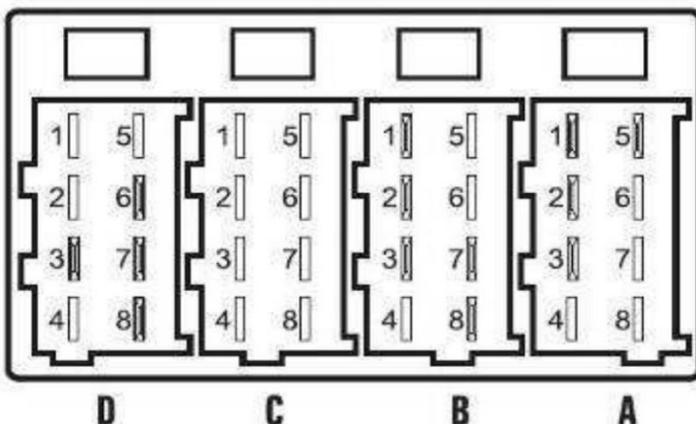   B. Trip Counter, and support reset the indication of the trip odometer to zero.

2. Calibration (imp/km) Programmable.
   The Calibration is programmable, so that many trucks can use this device.

3. Overspeed Buzzer Alarm
   For example, the Overspeed Alarm value is set to 100KM/H, when the truck's speed passes this value, then the Buzzer will alarm with very big voice.
   The Overspeed Alarm Value is programmable.

Socket Direction

A1 Power to Speedometer +

A2 Backlight (+)

A3 Ignition

A5 Power to Speedometer -

A6 Backlight (-) GND

B1 Sensor power +

B2 Sensor power –

B3 Real Time Signal

B7 V-Pulse Output

B8 4 pulse/m signal output
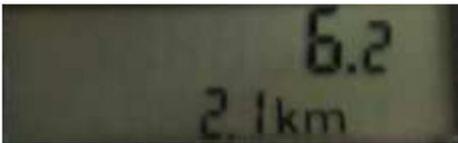
SETTINGS OF THE SPEEDOMETER

1. Reset Trip Counter to Zero

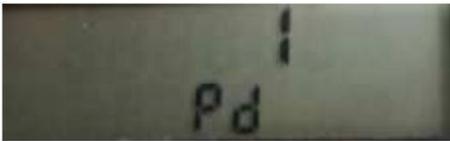   a)   Reset Trip Counter to Zero   Press and Hold the Middle Button

2. Set Speed Ratio (Calibration, imp/km) （1000-65535）

    a)   Press and Hold the **Middle Button**, Turn on the Ignition Power., wait for a while till the LCD Screen shows as below: (enter password)

b) Press **Right Button,** the rightmost digit will add 1.   (universal way to set other digits value in the speedometer)

c) Press **Left Button** to move the digits to the left to the next position (universal way to set other digits value in the speedometer)

d)   Press   **1410**(password),   then   press   **Middle   Button**   to   enter   K-Factor (Calibration,)setting
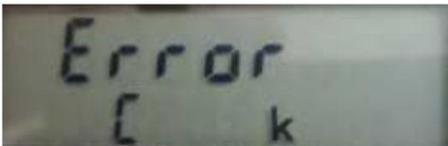

e) Set the Speed Ratio value, press the **Middle Button** to save and confirm, and back to the former menu.

f) Press **Middle Button**, and exit the setting menu.

g) If you program the Speed Ratio outside the scope of the settings, it'll show as below. Then press the **Middle Button** to delete error and reprogramming the right Speed Ratio
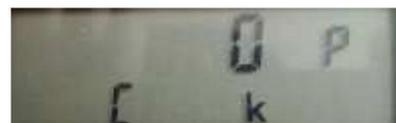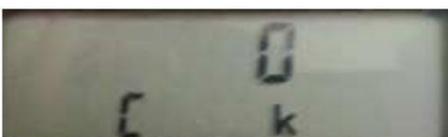

3. Measurement of the Speed Ratio

a) Press and Hold the **Middle Button**, Turn on the Ignition Power., wait for a while till the LCD Screen shows as below: (enter password)
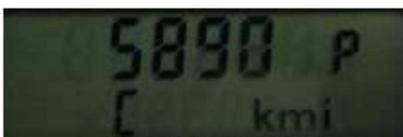

b) Enter **1410** and Press **Middle Button**, to enter Speed Ratio menu. (same as above)

c) Set the Speed Ratio =0 and press the **Middle Button** to confirm. LCD display will show letter "P"

d) Press the **Left Button** to start the Speed Ratio measurement at the beginning of 1000m distance

e) Press the **Right Button** to stop the Speed Ratio measurement at the end of 1000m, and back to   Speed Ratio setting menu.

f) Press the **Middle Button** to confirm, and back to the original menu.

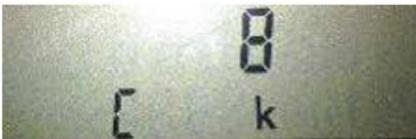## 4. Set Over Speed Buzzer Alarm Value(0-125km/h）

a) Press and Hold the **Middle Button**, Turn on the Ignition Power., wait for a while till the LCD Screen shows as below: (enter password)

b) Enter **1410** and Press **Middle Button**, to enter K-Factor menu. (same as above)

c) Set the K-factor to 8, press **Middle Button** to enter the Menu of setting Over Speed Alarm Value.

d) After set the Over Speed Alarm Value, press **Middle Button** to save and back to K-Factor Setting Menu.

5. Program Mileage

a) Press and Hold the **Middle Button**, Turn on the Ignition Power., wait for a while till the LCD Screen shows as below: (enter password)

b) Enter **1410** and Press **Middle Button**, to enter K-Factor menu. (same as above)

c) Enter 7 , press Middle Button to enter Mileage Programming Menu.

d) After Setting the Mileage, press Middle Button to save and exit.