



# AUTOMATION INDIA

An ISO 9001 : 2015 Company

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## ANTI TILT BODY WARNING DEVICE

**Model:** AI:ATBWD011

### [Product Overview](#)



Trucks with tipping bodies find their use in numerous applications, mostly relating to mining, transporting or moving minerals, cement, coal, construction material, sand, etc. from one place to another. For instance, a dumper/tipper truck will use body tipping to unload the goods. As a standard practice, hydraulic packs are used to provide required tilt angle to these vehicles. While tipping is a very common activity in the industry, several factors, which can compromise the safety of the tipping vehicle during operation are important to consider. Any mishap will not only damage the vehicle but will also cause damage to the hydraulic pack and harm to the individuals operating the vehicle and present in the vicinity leading to monetary losses and legal complications. Before we discuss how a **ANTI TILT BODY WARNING DEVICE**

can help prevent these accidents and consequent damage. Let us have a look at different factors which can lead to an accident while tipping.

## Product Features

Feature	Description
Model	AI:ATBWD011
Sensor	dual axis angle measurement (+/-89.65deg) accuracy (+/-0.2deg)
Digital Output	1.3" OLED 128 x 64 resolution display, 6 red LEDs indicator. (Easily Driver can see the actual level of vehicle and warning alert for angel).
PC application Interface	(optional) Interface: RS232/CAN, Protocol: LCS standard.4input/outputs)
IP67grade environmental sealing	TEMP -10°C to 60°C.
Operating voltage	10VDC-32VDC, current consumption: <100ma @ 24VDC.

## Applications

1. Display on the in-cabin box shows the inclination of the surface in real-time but the device starts functioning when the Dalla lever is pressed by the operator for lifting the Dalla.
2. With a 2 to 3 sec latency EMS sends input to the MCU box that Dalla is being lifted
3. If the slope inclination is within the permissible limit (less than 5") the MCU will allow to lift the Dalla and apply hand brake simultaneously else will raise alarm to re-position the vehicle where

inclination of slope is within the permissible limit (less than 5")

4. If the operator finds it important to move the vehicle while the Dalla is in raise position to completely unload the vehicle then operator may use the push button which on pressing will allow the vehicle to move backward or forward for 20 seconds only.

5. Post unloading when the Dalla is brought back to the normal position hand brakes gets disengaged automatically thus allowing the vehicle to move.