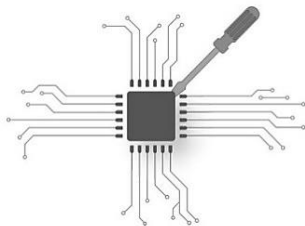


WEIGHBRIDGE FRAUD PROTECTION

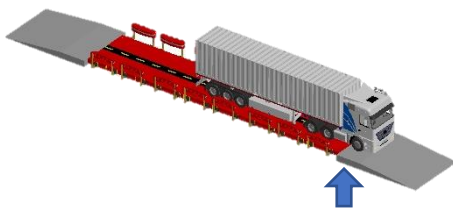
Weighbridge Frauds

The prevalence of frauds in weighing of trucks on weighbridges is a major concern amongst all industry segments, as it leads to revenue leakage & directly affects profitability. Avery India offers a range of solutions with measures to prevent potential frauds. These solutions can be used in conjunction with your new or existing road weighbridge to safeguard your business.

Typical frauds & malpractices on a weighbridge



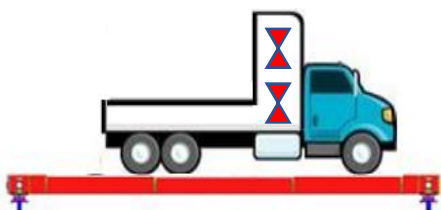
- 1) **Load-Cell Tampering** – An additional component is incorporated into the analogue load cell system, enabling the operator to utilize a remote control and adjust the weight to their advantage.



- 2) **Improper Positioning** -The most frequently observed form of cheating involves either the truck not being positioned completely on the scale or the following vehicle entering the scale, leading to an inaccurate weight measurement that may be either lower or higher than the actual weight.



- 3) **Altering Data** – The weighbridge attendant colludes with a truck driver to manipulate weight tickets and receive a share of the earnings, while on the other hand, the data management software lacks security measures and is vulnerable to being hacked.



- 4) **Tare Weight Manipulation** – The driver adds additional objects such as rocks, sandbags, or other material to the vehicle or load resulting in inaccurate measurement. This can result in the customer paying higher fees or taxes than they should, which can have financial implications for them.

WEIGHBRIDGE FRAUD PROTECTION

Avery Anti-fraud Solution Portfolio								
		Digital Load Cell (ZT)	VPS (Vehicle Positioning System)	Boom Barriers	Weighing Intelligence Software	Surveillance System	Smart Tower UWS	ERP data integration
1	Load-Cell Tampering	☑						
2	Improper Positioning		☑	☑		☑	☑	
3	Altering weight Data				☑		☑	☑
4	Tare Weight Manipulation				☑	☑	☑	

How Avery's Anti-Fraud Solution Portfolio helps to detect & prevent malpractices:

1. ZT T301x Digital Load Cells

- Weight values are sent as encrypted, digital data instead of analogue signal, to prevent unauthorized access & manipulation of load cell output.
- It does not require a Junction Box thus avoiding chances of installing any stealth hardware for manipulation.
- Individual load cell serial nos. are identified in the system to detect security breach and prevent potential fraud.
- Can be monitored in real-time, allowing for immediate detection of abnormalities or tampering. This can help prevent fraud before it happens or limit the damage caused by fraudulent activity.



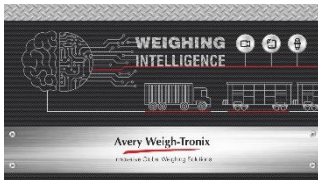
- #### 2. WI-N'sure Vehicle Positioning System (VPS):
- Multiple set of IR sensors are deployed with detection logic, such as when the truck is not entirely on weighbridge platform or if another truck is partially on it, system shall not allow recording of weight.



- #### 3. Boom Barriers:
- These are optional accessories which can be used to ensure that only one truck can be on the weighbridge at a time & that it cannot leave until the weighing is complete.



WEIGHBRIDGE FRAUD PROTECTION



4. Weighing Intelligence (WI) Application Software:

- The WI Software receives weight only through electronic communication from digitizer & does not allow manual weight entry eliminating the risk of human error or manipulation.
- Tare weight tolerance & history can also be implemented to track & identify any potential fraud like manipulated Tare wt.



- #### 5. WI-View Surveillance Solution:
- Weighbridge Surveillance system using high resolution IP cameras can be used to capture snapshots of truck on the platform from front, rear & top, providing a visual record that can be audited to detect any fraudulent activity.



6. SmarTower UWS (Unmanned Weighbridge System):

SmarTower UWS eliminates the need of deploying dedicated manpower to operate the weighbridge. It incorporates VPS, Surveillance, WI, Optional boom barriers and additionally RFID based secure truck identification. A 2-level authentication using ANPR technology is also available as an option.



- #### 7. ERP data Integration:
- Software solutions from Avery Weigh-Tronix are available to integrate manned or unmanned weighbridge data directly with various ERP systems like SAP, Oracle NetSuite, JDE, MS-Navision etc. in a seamless, secure, and scalable manner. This prevents any human error or manipulation of data while posting in ERP.



Avery Weigh-Tronix

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Avery Weigh-Tronix is an ITW company