

**PREVENT FINES AND VEHICLE WEAR BY  
MONITORING AXLE WEIGHTS.**



## OPTIMIZE YOUR PAYLOAD AND AVOID FINES

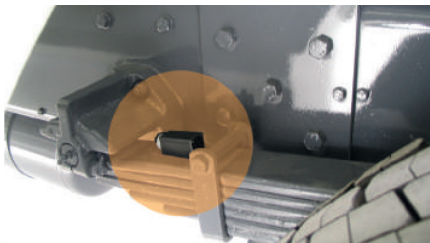
Benefit from load monitoring, fleet tracking and payload optimization with Vei On-board Weighing's new overload protection system. **TrueLoad** is specifically designed for larger capacity vehicles up to 60 tonne (66 tons), with mechanical and/or air spring suspension.

Offering vehicle weight indication as standard for individual axles and vehicle gross, this overload protection system incorporates patented technology. Utilization of state-of-the-art solid state sensors ensures maximum durability in harsh environments and since there are no moving parts it is not susceptible to wear or slipping out of calibration because of stretched springs which are common in other axle load monitoring systems. For continuous monitoring of load conditions, it can also be linked to third-party tracking software and is compatible with all options offered.

**TrueLoad** is a simple to operate, durable and low cost positive contribution to safe driving.

### THE IDEAL SOLUTION FOR MONITORING OF LOAD AND OVERLOAD

**TrueLoad** is an overload monitoring, load distribution and payload optimisation for use on vehicles with a steel spring or air suspension, or a combination of the two.



#### AXLE LOAD MONITORING

Combinations of our patented axle transducers and/or air pressure transducers obtain the loading information of each axle or axle group.

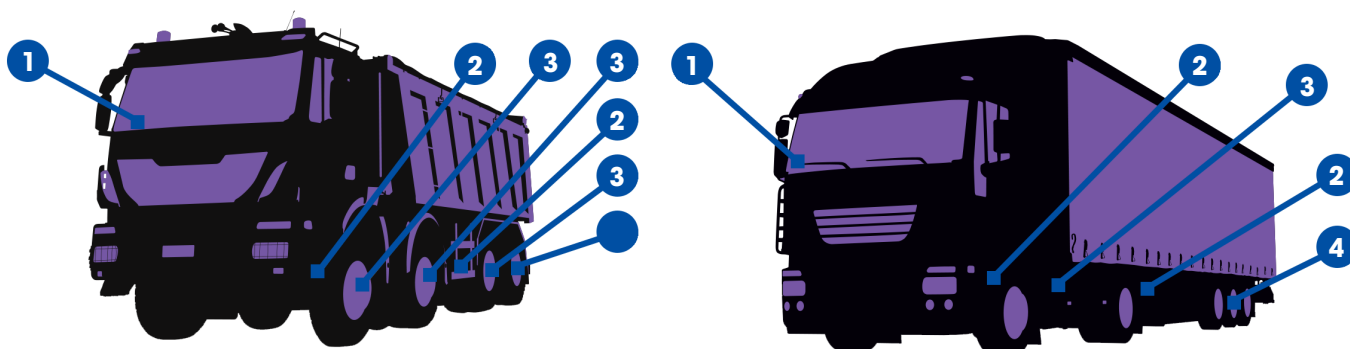
With **TrueLoad** sensors, all truck combinations can be monitored without modifying the truck's chassis or frame structure. No moving parts between the frame and the spring allow high durability and no wear as on typical encoder sensors.



- **TrueLoad** axle transducers measure suspension deflection, for use on mechanical spring suspension systems. Sensors are glued onto spring, no welding or bolting, easy and safe installation.
- Air pressure transducers for use on air suspension systems. In order to support all known chassis types, various system options can be configured using either of the above transducers or certain combinations of the two.



# TRUELOAD COMPONENTS



## TRUELOAD DIGITAL INDICATOR

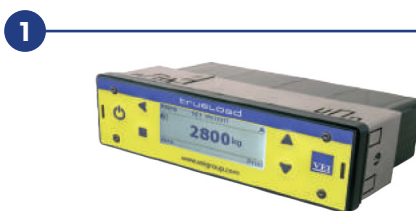
Specially engineered for on-board use, the **TrueLoad** indicator is a versatile head unit designed to suit a variety of trucks from 7.5 tonne to 50 tonne GVW. Its mounting flexibility ensures that it is suitable for both DIN radio mount and dash mount.

## TRAILER IDENTIFICATION

**TrueLoad** automatically recognises the overload monitoring system on the trailer, so there is no need to recalibrate every time the trailer is swapped.

## TELEMATICS OUTPUT

Connection to third-party, tracking systems is easily achieved via **TrueLoad**'s standard telematics output.



## TRUELOAD

There is only one head unit per system; this is where the weights are calculated. The head unit is used for all display, setup, calibration and diagnostic functions.



## CAN JUNCTION BOXES

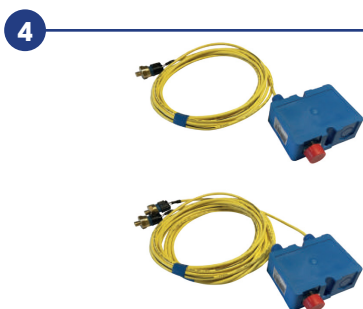
The axle transducers connect to the head unit via junction boxes.

- 4-way junction box
- 6-way junction box



## AXLE TRANSDUCER

Each steel suspension axle uses a pair of **TrueLoad** axle transducers.



## SINGLE AIR TRANSDUCER AND INTERFACE

Air suspension groups will use an air transducer and interface unit for each group. An air group can be 1 or more axles connected to the same air circuit.

## DUAL AIR TRANSDUCER AND INTERFACE

Where pressure is controlled independently on left and right hand sides a dual air transducer unit must be used.



## EXTERNAL ALARM

Optional

Benefits	
Maximize payload capacity	
AxleWatch — axle weight and overload indication	
Trailer identification	
Accuracy — better than 2.5% (90 -110% of FSD)	
Reduce vehicle wear and tear and fuel consumption	
Protect your license	
Avoid fines and overload endorsements	
Simple to operate	
Balanced load distribution	
No driver input required	
Axle and gross overload warnings	
7.5–50 tonne GVW	
Rugged for harsh environments	

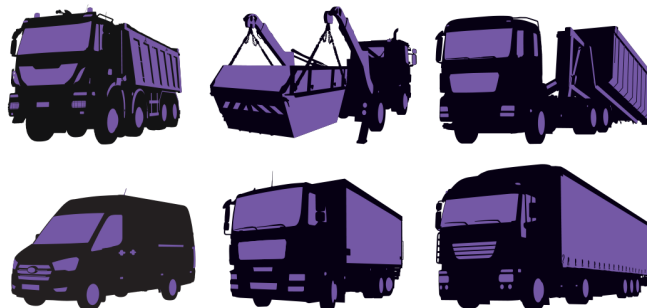
Hardware characteristics	
Power supply	12- 24Vdc
Working temperature	Sensors -40 - +80 °C
	Junction boxes -40 - +120 °C
Sensor communication	CANbus
Shocks	40 g
Protection class	Meter IP54
	Sensors IP69
	Junction boxes IP69
	Connectors IP69
Size	DIN Radio slot type mm. 180 x 50
Display	Backlit graphic black and white
Keyboard	Membrane
Telematics or printer	RS232

Features	Standard	Option
Gross vehicle overload	•	
AxleWatch individual axle overload	•	
Built-in alarm sounder	•	
Trailer swap trailer identification	•	
CAN bus	•	
RS232 output	•	
Password protection	•	
Telematics output	•	
External alarm		•

## APPLICATIONS

### SUITABLE FOR THE FOLLOWING TYPES OF TRUCKS:

Articulated tippers - Rigid tippers - Trailer units - Skip loaders - Hook loaders - Pick-up trucks. All vehicles with spring and/or air suspension.



### Other products from Vei that you may be interested in:

**helperX**



**helper MINI**



**MILLENNIUMS**



*These may not be stock items. Please speak to our sales representative about lead times. Lead times, price and availability can only be determined on receipt of an official quote from our supplier. This can sometimes take up to 3 days.*

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