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Axtec OnBoard Axle Load Indicator

LCV Users' Guide

Serial Nos 92001801 onwards
Software Version 2.01 onwards

Registered in England & Wales No. 7116182

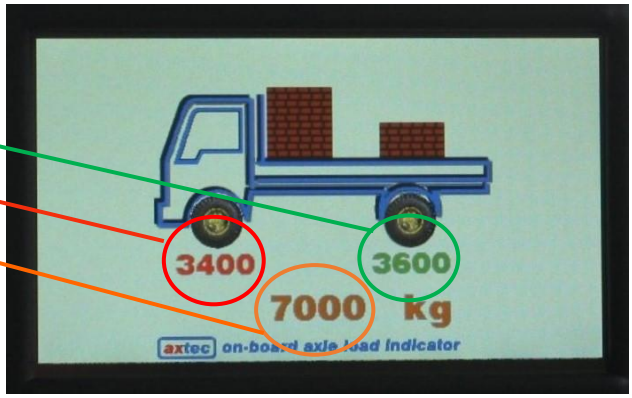
Introduction

This manual is intended to provide guidance for users of the Axtec OnBoard Axle Load Indicator. This innovative system is designed to help protect operators and drivers of commercial vehicles from axle and gross vehicle overloads. It is suitable for use with all 2-axle rigids, and 3- and 4-axle rigid vehicles with any type of suspension on the steering axle, and rubber or air rear suspension.

Axtec OnBoard does not require any input from the driver, nor any formal training. Best results are obtained when the vehicle is standing on level ground, preferably after gently moving a few metres after loading. This allows the suspension system to shake out any inertia following the loading/unloading process. Very good results are also obtained when rolling along a level road at a constant slow speed.

Axtec OnBoard displays the axle and gross vehicles loads of the vehicle, as below:

- Green Load is less than 80%
- Red Load is over 100%
- Amber Load is 80% - 100%



Axtec OnBoard can be configured to give additional visual and audible warnings when the displayed text is red (during alarm conditions).

In addition to the displayed load values, Axtec OnBoard gives a graphical representation of the load and load distribution, using a stack of bricks per axle. As the load increases, the stack gets higher until, when the vehicle is overloaded, the stack is higher than roof level

Customer Specific Settings

All customer specific settings will have been configured by your installer. These may include:

- Brightness Axtec OnBoard will adjust the backlight to suit the ambient light
- Blank Display The display may blank during motion so as not to distract the driver
- Alarm Threshold Alarm conditions may be set at 80% rather than the default 100%
- Flashing Displayed load flashes when axle / GVW loads are above Limit set.
- Sounder Audible warning when axle / GVW loads are above Limit set.

If you find that any of these are not suitable for your application, please contact your installer.

Troubleshooting

Axtec OnBoard is not a weighing system, and it is quite possible that the axle and vehicle loads shown will differ from those determined when the vehicle is weighed on a weighbridge. This is nothing to be alarmed about, as long as Axtec OnBoard is operating within the prescribed tolerances, which are:

- For two-axle rigid vehicles: ± 2.5% +1 division per axle
- For three-axle rigid vehicles: ± 5.0% +1 division per axle
- For vehicles with rear-assister springs: ± 5.0% +1 division per axle

Using the appropriate "Units" for the vehicle, the tolerances for some common 2-axle weights are:

Plated Weight	**3,500kg**	**5,000kg**	**11,500kg**
Multiply the Plated Weight by the tolerance + round up	100kg	150kg	300kg
Add one division per axle for rounding error	40kg	100kg	200kg
Allowed Tolerance	140kg	250kg	500kg

The tolerance on gross vehicle weight is the sum of the tolerances on individual axle weights, and it is based on the vehicle being parked on level ground. Care should always be taken that comparative readings are taken with the driver in-situ.

If a fault is suspected, before contacting Axtec or your approved installer, please refer to the section below for common faults:

Fault	**Action**
Screen does not display	Recycle Power
Weights are higher than expected	Check the system shows the unladen weights when empty.
System is not weighing correctly	Check sensor cables are correctly located: Blue = front (LHS) / Yellow = rear (RHS)

If the above actions do not resolve the issue, please contact your installer.

END OF MANUAL