

## Lightweight Wheel Pads Plug-and-Weigh™



The Lightweight Wheel Pads provide a rugged portable weighing system which can be used in many vehicle applications.

### Simple to Operate

In operation the system is simple. To use the **Lightweight Wheel Pads** all the operator has to do is to switch the weigher on. If there is a weight showing on the display while nothing is on the pads then they can be zeroed by pressing the zero key on the indicator. The pads have been factory calibrated for maximum accuracy, and have been designed to maintain a high level of accuracy while being used on both level and uneven ground. No special setting up is needed, just drop them on the floor and plug them in.

### Weigh Sensors

The Ton-Tel™ wheel pads have weight sensors built into them which are both waterproof and very robust. Each Wheel Pad can take a weight of up to 5, 10 or 15 tonnes depending on the model; giving an overall maximum capacity of 10, 20 or 30 tonnes on one axle. The **Lightweight wheel pads** are manufactured from high strength light weight aluminium alloy and are easily lifted by one man.

### Automatic weighing

Weighing a vehicle is a very fast operation.

The vehicle drives forwards until the first axle is on the pads. A red light comes on when the wheels are on the pads to indicate to the driver to wait while the pads calculate the axle weight. The light then goes off when the axle weight is automatically caught by the system. The vehicle then moves forwards to place the second axle on the pads and the procedure repeats with the second axle being automatically caught. When all the axles have been weighed the indicator automatically adds the weights together and shows the total vehicle weight.

These pads are designed so that they can be carried in the vehicle, or can be used for roadside checks on many vehicles. The operation is simple, automatic and fast.



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## Three different models 5 tonnes, 10 tonnes and 15 tonnes



### Light Weight Model, WP-5T



|                 |   |
|-----------------|---|
| Dimensions      | Overall: 500 mm by 300 mm each                                  |
| Weighing area   | 500 mm by 300 mm  |
| Height          | 43 mm   |
| Weight          | 10.0 kg each pad  |
| Capacity        | 5 tonnes per pad (10 tonnes per pair)                           |
| Connector       | Push in plug and cable, waterproof                              |
| Ramps           | None needed   |
| Optional Extras | Steel Frame above ground with ramps<br>Steel frame below ground |

### Medium Weight Model, WP-10T



|                 |  |
|-----------------|--|
| Dimensions      | Overall: 650 mm by 380 mm each         |
| Weighing area   | 650 mm by 380 mm                       |
| Height          | 53 mm                                  |
| Weight          | 24.0 kg each pad                       |
| Capacity        | 10 tonnes per pad (20 tonnes per pair) |
| Connector       | Push in plug and cable, waterproof     |
| Ramps           | Rubber, each weigh 5 kg, 2 per pad     |
| Optional Extras | Steel Frame to go in the ground        |

### Heavy Weight Model, WP-15T



|                 |  |
|-----------------|--|
| Dimensions      | Overall: 700 mm by 500 mm each   |
| Weighing area   | 700 mm by 500 mm   |
| Height          | 53 mm  |
| Weight          | 41.0 kg each pad   |
| Capacity        | 15 tonnes per pad (30 tonnes per pair)                                 |
| Connector       | Push in plug and cable, waterproof                                     |
| Optional extras | Steel Frame above ground with ramps<br>Steel frame to go in the ground |

## Indicators

### Waterproof Indicator and Printer



#### Standard Indicator

The standard indicator has a back lit display and output plug for a simple traffic control light. The weighings are automatic and when the total is displayed the record gets stored in the memory with date, time and ticket number. The indicator can be attached to a computer for download of the records. Internally there is a rechargeable battery which runs the indicator and the wheel pads. The battery can be charged from another 12 volt battery or from the mains supply. A wall bracket and desk stand are available.

#### Indicator with tally printer in carry case

The indicator and printer are built into a tough waterproof suitcase housing for ease of carrying between locations. When the lid is closed the printer is completely waterproof which makes it very suitable for carrying in the vehicle with the weigh-pads. The carry-case indicator has the same functionality as the standard indicator with the added advantage of the ability to print out.

General operation is that each set of wheels is weighed and automatically gets put into memory without the operator doing anything more than driving onto the pads. When the platform does not feel another weight coming onto it within 20 seconds it automatically adds the weights together and prints out the ticket showing ticket number, date, time, weight of each part and total weight of the vehicle. The completed record is put into memory and can be recalled and re-printed at a later time.

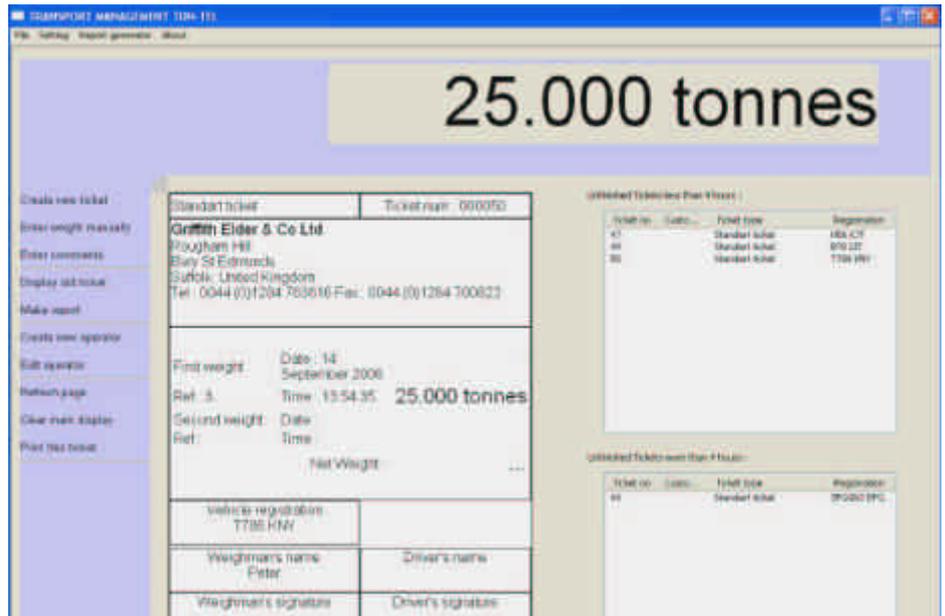
The whole system operates from 12 volts dc and so can be run from a car battery. Hence no mains power is needed which gives maximum flexibility for using the wheel pads in remote locations.



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## Computer and Software Programs for management



The actual weighbridge ticket shows on the screen, so what you see is the finished ticket.

### Three programs are available:

#### Standard Download Program

This is used where an indicator has stored all the data. The weighments can be downloaded back at the office to this program and extra details such as vehicle registration can be filled in on the screen.

#### Vehicle Management Program

The wheel pads are digital so can be directly plugged into a laptop computer. This allows proper control of the vehicles and full logging of every weighment. The operator can type in details about the vehicle, where it came from, its destination and the goods it is carrying. Weighbridge tickets can be configured to suit all information requirements with full database facilities to hold the information.

#### Law Enforcement Program

Where the pads are being used for overload checking this program shows the type of vehicle and the fines for overloading of individual axles, groups of axles and gross weight. Details of the vehicle, driver and owner can be typed in so that a complete record is created at the time that the weighing took place.

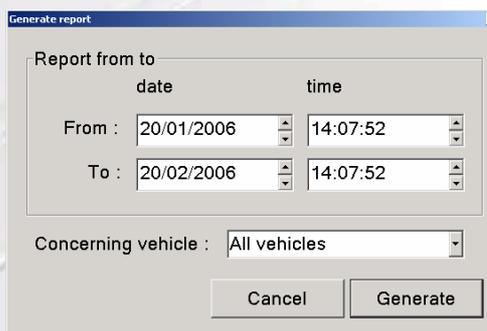
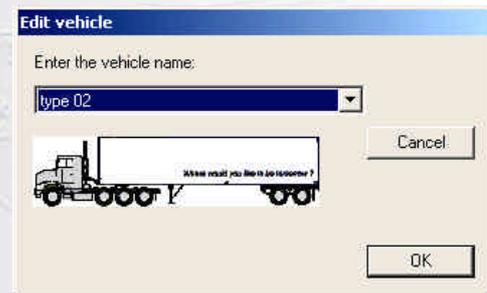
#### Reports

Reporting is very easy from the computer programs. Reports can be saved in csv format for integration with another program or can be direct into a spreadsheet or in HTML format for displaying on a web browser.

#### Networking

The programs can be networked together so that reports can be taken from a computer which was not the one used to collect the data.

Also, reports can be transferred from each laptop to a single main computer for analysis of the data from all the weighings.



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## Plug-and-Weigh™ Wheel Pads Specifications



### Wheel Pad Specifications

The Ton-Tel™ Wheel Pads are made from high grade high strength aluminium. Waterproof Sealed to IP67 with push-pull connectors. All wheel pads are digital with direct weight output on secure RS485 bus.

|                           |  |
|---------------------------|--|
| <b>Temperature range:</b> | minus 15 degrees C to plus 60 degrees C.   |
| <b>Humidity range:</b>    | 10 to 100 percent RH   |
| <b>Dust Ingress:</b>      | 100 percent protection   |
| <b>Accuracy</b>           | + - 0.5 % of full scale.   |
| <b>Power required</b>     | 12 volts DC from indicator or separate battery or 110/220 volts AC with adapter. |

**All wheel pads have a digital output.**

### Indicator Specifications

**Standard indicator** Automatic weight capture. Shows all axle weights and total vehicle weight. Stores weights in memory for download to computer.

**Carry Case Indicator with Printer** Automatic weight capture. Shows all axle weights and total vehicle weight. Prints out when ticket is complete and stores weights in memory for download to computer. Single and two part paper is available.

**Computer** Laptop pc running Windows, database for all records to be stored. Can be used as stand alone system direct into the wheel pads, or can be used in conjunction with both the standard indicator and the carry case indicator.

**Software** Three programs to suit all situations. Very powerful data reports which can be used in other programs for management purposes, analysis and invoicing.

**Red Traffic Light** can be used with indicator and computer to tell when to drive and when to stop on pads.

**Red/Green Traffic Light** can be used with indicator and computer to tell when to drive and when to stop on pads.

**Desktop Printer** Single part or two part paper roll shows ticket number, date, time, part and total weight. This printer can be used with the standard indicator and as a secondary printer with the carry case indicator.

**Wall Mount Printer** Single part or two part paper roll shows ticket number, date, time, part and total weight. This printer can be used with the standard indicator and as a secondary printer with the carry case indicator.

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