

# Ton-Tel™ Portable Weigh Beams

## Split-Weigh system, above ground

# Griffith Elder



The Ton-Tel™ Portable Weigh Beams are a new development in portable weighbridges, enabling industrial vehicles to monitor their load quickly and accurately in any given location. At the heart of this new weighbridge system is two portable Weigh Beams, each with two digital load cell sensors. The Weigh Beams deploy the **Griffith Elder Split-Weigh system**, which is an established method of accurately weighing a vehicle. Small vehicles are weighed in one go; bigger trucks and tractors and trailers are weighed in two or three parts.

### Automatic weighing

Weighing a vehicle is a quick, driver-only operation. When the weighbridge is at zero, a green traffic light tells the driver to move the vehicle onto the weigh beams. The traffic light turns red, telling the driver to stop and wait. After approximately 3 seconds the indicator catches the weight and the traffic light returns to green, telling the driver to move forward. If a trailer is attached, the trailer axles are moved to the weigh beams to be weighed in the same way. When the whole vehicle has been weighed, the green traffic light tells the driver to move off the weigh beams. After about 20 seconds the weights are added together and put into memory and a ticket is automatically printed.

### Portable

The heavy duty construction of the Portable Weigh Beams makes them suitable to move and work in harsh conditions, particularly in mines and on farms where reliability and portability are essential requirements.

The weigh beams require no special installation and an easy-to-follow instruction manual comes with the kit. A signal cable runs from the platform to the indicator or computer. Plug the cable in and the system is ready for use.

The entire system runs from 12 volts dc and can be run from a normal car or lorry battery or the re-chargeable internal battery. Hence no mains power is needed which gives maximum flexibility for using the weighbridge in remote locations. A solar panel is also available to charge the battery.

### Weight Sensors

The weight sensors in each Weigh Beam are designed to be robust and durable, particularly when being constantly moved. They incorporate the latest WeighTel™ digital technology and are factory calibrated for maximum accuracy. Each weight sensor is manufactured from stainless steel and is fully waterproof to IP68 standard to ensure a long and trouble free life.

**Griffith Elder and Company Ltd**  
1 Oaklands Park  
Bury St Edmunds  
Suffolk  
IP33 2RW  
United Kingdom

Telephone: +44 1284 719619  
Fax: +44 1284 700822  
Email: sales@griffith-elder.com  
Internet: www.griffith-elder.com

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*Choice of Recording Equipment*

**Griffith  
Elder**



## Large display complete with traffic light

The weight of the axles can be shown on a large external display with 80 mm high red LED digits making the information visible to the driver immediately. At the end of the weighing the display will show the gross weight of the vehicle. The large display is fully waterproof. The display shows the weighing status, utilising a traffic light element. Other display elements show zero when the platform is idle or dashes for a weighing error.

## WB4 Indicator and printer

The WB4 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 locations with no site hut. The indicator has a memory capacity for 10,000 weighings with serial number, date and time. The printout shows the part weights and total weight of the vehicle, with date, time and ticket number, and a trading name can be added to ticket headers.

## WB6 Indicator with Identification Fobs and Printer

The WB6 indicator is similar to the WB4 but has the added feature of storing tare (unladen) weights of vehicles in its memory, so that it shows gross, tare and net weights, date, time and ticket number. It also has an accumulated net weight total memory, so that individual

batches can be accumulated. The WB6 can be used with radio ID fobs so that a driver does not need to get out of the vehicle. Each fob is kept in the cab and the driver presses it so that the indicator recognises which vehicle it is, and hence which tare weight to use in calculating the net weight. The display is double height and has the capability to download records to a memory stick.

## Computer

A PC with GE software can be attached to the indicator so that weights are stored on a database and can be printed out as a report on a spread sheet. The computer gives the operator a full database system with the ability to record the details at the time of weighing and hence allows detailed reports. Farm, Industrial and Transport Management software packages are available for this system.

## Griffith Elder and Company Ltd

1 Oaklands Park  
Bury St Edmunds  
Suffolk  
IP33 2RW  
United Kingdom

Telephone: +44 1284 719619  
Fax: +44 1284 700822  
Email: sales@griffith-elder.com  
Internet: www.griffith-elder.com

## General Specifications

Size of beams	2.8 metres long, 30 tonnes max axle load
	4.2 metres long, 30 tonnes max axle load
Maximum gross vehicle weight	200 tonnes
Speed of operation	2 weighments typically takes 20 seconds
Power required	12 volts DC
Static accuracy	+/- 20 kg
Temperature range	-30°C to +70°C
Load cells	Model DE-20T-CD-L
Warranty	18 months on all parts from date of shipment