

## Operation - Mode Function

The orange button with white star symbol is the mode selection button. Each press of the mode button will cycle through the different operating modes of the unit. The portable unit is factory set so that both level indication, and direction indication operate when power is applied. Pressing the mode button will cycle through the modes in the following sequence:

**First Press** - Compass indication only.

**Second Press** - Level and direction indication turned off. This is useful if only the torch facility is required.

**Third Press** - Level indication only.

**Fourth Press** - Level and direction indication.

The level indicating LED's are configured exactly the same as for the fixed model (i.e Red indicates the unit is more than 4 degrees from horizontal, Yellow indicates the unit is between 1 and 4 degrees from horizontal, and the Blue Level LED will not light until the unit is perfectly level on BOTH axes).

## Operation - Compass

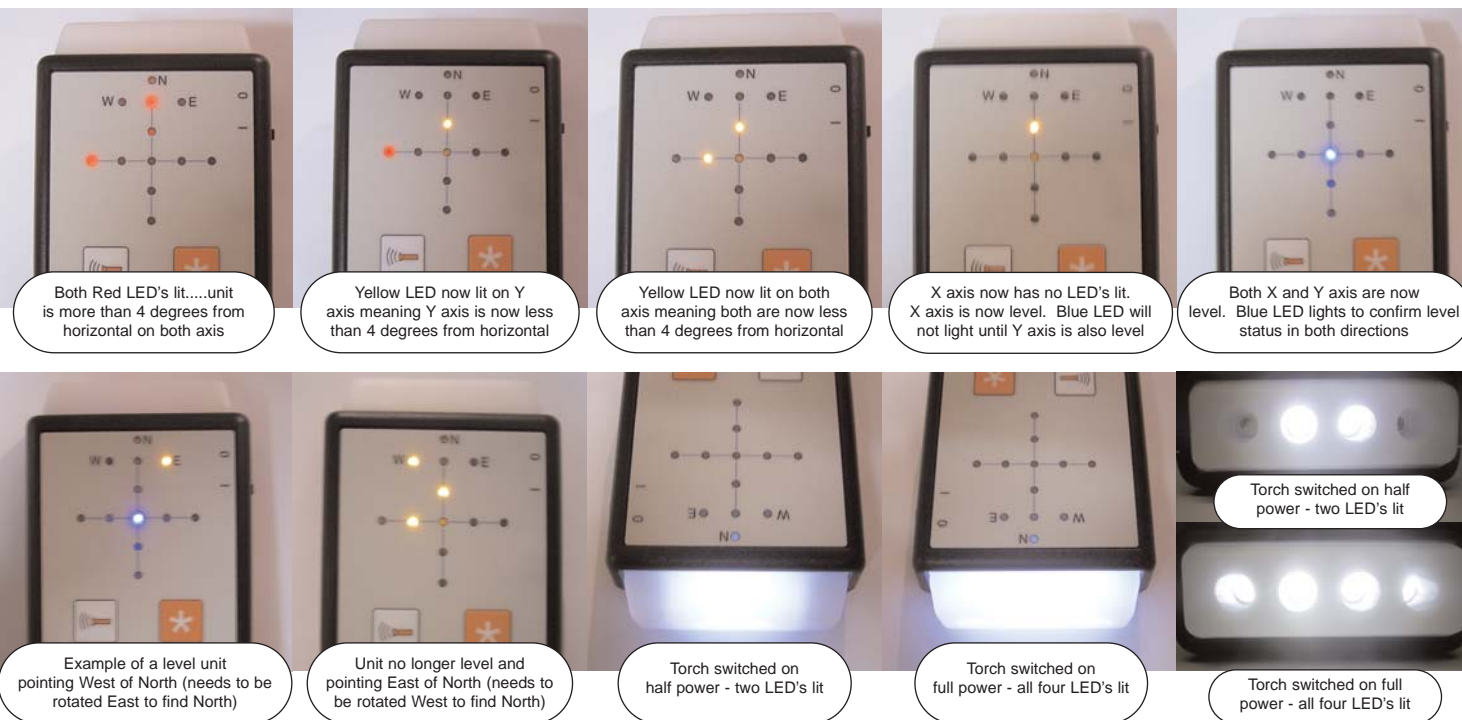
*North LED* - Green when compass is pointing North.

*West LED* - Yellow when the compass is pointing east of North, and needs to be rotated in a Westerly direction to find North.

*East LED* - Yellow when the compass is pointing West of North, and needs to be rotated in an Easterly direction to find North.

*note: The company reserves the right to make design improvements without notice.*

## The Portable model in action:



Manufactured in the UK by:

ASSEMTECH EUROPE LTD  
Unit 7, Rice Bridge Industrial Estate,  
Thorpe - Le - Soken, Essex, CO16 0HL  
Tel: (01255) 862808  
Fax: (01255) 862014  
email: levelled@assemtech.co.uk  
web: www.assemtech.co.uk



Certificate No: FM21080  
ISO 9001: 2000



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NEW

GET IT LEVEL WITH:

**LEVELLED**

Make Spirit levels a thing of the past ! Light up your levelling experience with these unique devices which will show you when your caravan is level via super bright LED's, clearly visible in bright sunlight, and perfect for those late night site arrivals !

Two versions are available. A fixed model designed to attach permanently to your caravan 'A' frame (or other flat surface), and a portable hand held model which is simply placed on any suitable flat surface. The portable version also incorporates a dual brightness torch, together with an electronic compass to help you site your caravan so that the sun comes streaming through your favourite window at dawn ! (Weather permitting!)

However, not only designed as a caravan levelling aid, the portable model is also perfect for DIY jobs around the home.

It's time to throw away that spirit level !

**Electronic levelling has arrived.....**



# The Technology.....

Primarily designed as an aid to caravan and motorhome levelling, the **LEVELLED** level indicators from Assemtech Europe are small devices offering a convenient and accurate method of providing visual indication of whether or not an object is level. An array of superbright LED indicators give a constant indication of the angle of tilt, and are colour coded giving high visibility in all ambient light levels.

The devices incorporate MEM technology and microprocessor control to accurately monitor and display the angle of tilt in two directions. Temperature compensation is standard in both models, allowing the units to maintain accuracy over a temperature range of -10 to +70 degrees Centigrade.

## The Fixed model



### The Unit

Available in Black or White, the fixed unit has a hard ABS case. The LED's are sealed under a membrane, which protects the unit from the elements. There are two fixing holes at opposite ends of the housing, which allow for easy fixing either to your caravan 'A' frame or chassis, using the screws provided in the pack.

### Power

The fixed model can be powered from any 9v - 24V DC power supply, and connection to your leisure battery or distribution board is easy via a 3 metre cable with flying leads.

The unit has an on / off switch - Push to switch on, LED's will light up, and press again to switch off.

### Operation

The units' level sensor is calibrated at the factory, so once installed and connected to a power source, the unit is ready to use.

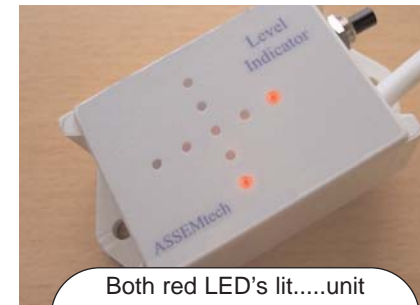
The outer LED's on each axis are coloured RED. A lit RED LED indicates that the angle is 4 degrees or more from horizontal.

A lit YELLOW LED indicates that the angle is between 1 and 4 degrees from horizontal.

The centre LED is coloured BLUE. A lit BLUE LED indicates that the unit is perfectly horizontal IN BOTH DIRECTIONS.

*note: The blue LED will only light when the unit is level in both directions, and will remain unlit until a level status has been achieved on both axes.*

## The Fixed model in action:



Both red LED's lit.....unit is more than 4 degrees from horizontal on both axis



Yellow LED now lit on Y axis meaning Y axis is now less than 4 degrees from horizontal



Yellow LED now lit on both axis meaning both are now less than 4 degrees from horizontal

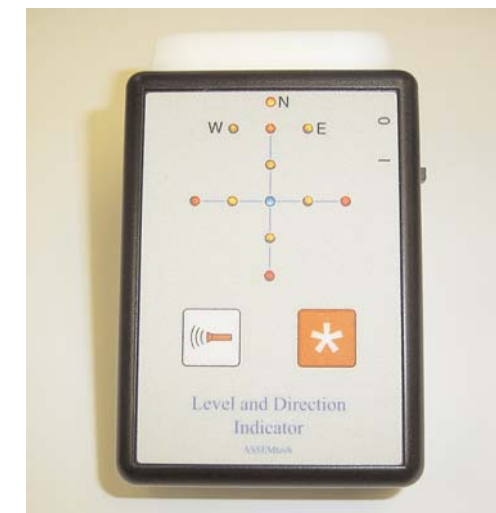


Y axis now has no LED's lit. Y axis is now level. Blue LED will not light until X axis is also level



Both X and Y axis are now level. Blue LED lights to confirm level status in both directions

## The Portable model



### The Unit

The portable model also incorporates an electronic compass and torch. Designed not only as a caravan and motorhome levelling aid, the portable unit is also ideal for any application where accurate levelling is required, such as DIY around the home. Both level and compass functions can be easily calibrated.

### Power

The portable model is powered from one 9V PP3 battery (supplied) which must be fitted before use. The unit has a power on / off switch on the right hand side. Sliding to the '1' position turns the unit on.

### Operation - Torch Function

The torch function is enabled by pressing the left hand button (torch symbol). One press of the button turns the torch on half power (i.e two LED's lit only), a second press will turn on all four LED's giving maximum brightness. A third press turns the torch off.