

ABT-4050
Collapsible Platform Gauge



**Instruction Manual** 

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# 2.0 Technical Specification

Weight	-	4.7kg	Measures Horizontal Offset	-	Range - 660mm - 920mm
			(Platform edge to running edge)		Accuracy - ±2mm
Size (folded)	-	1900mm x 400mm x 40mm	Measures Vertical Offset	-	Range - 760mm –1080mm
			(Platform height)		Accuracy - ±2mm

## 3.0 General Description

The Abtus ABT4050 Platform Gauge has been designed to be used from the platform by a single operator-offering the possibility of platform measurement without track possession. The gauge is primarily used as an inspector's tool in assessing the positioning of station platforms. If used correctly, the Platform gauge can measure the offset and height of a platform, relevant to the top of the rails to  $\pm$  2mm. There is a great flexibility with the type of rails on which it can be used due to its construction from non-conductive GRP (glass reinforced plastic) and nylon 6.

The GRP and Nylon construction is lightweight and electrically non-conductive and the tool may be folded under a minute, to a compact size for carrying and storage.

### 4.0 Use of Gauge

The unique open frame allows the operator to lower the gauge onto the track from the platform and move it quickly in the event of a passing train. Height and offset measurements are made by means of a sprung measurement stick. A self-positioning foot adjusts to any rail type, while the opposite rail is referenced to account the train tilt.

### 4.1 Assembling the gauge

Un-clip the straps from the gauge and position the two connecting knobs in slots on the main foot. These are to be tightened so that the head of the screw fits flush in the countersunk holes in the nylon profiles.

#### 4.2 Positioning the gauge

The optimum position for holding the gauge is on the end of the protruding pole, near to the clip. From this position the gauge can then be lowered onto the rail (the 'claw foot' locating on the closest rail, the flat foot on the furthest rail). The self-positioning foot will adjust to any rail, side-cut etc. The opposite rail is referenced to give cant adjustment.

#### 4.3 Taking measurements

The offset of the platform from the track is measured in both horizontal and vertical planes on a self-positioning nylon arm. It is important to allow the arm to find its own position on the platform, however some minor adjustment may be required to maintain an accurate reading of ±2mm.

Due to the nature of the tool, it is possible to force the measuring arm away from its optimum measuring position, by excessive pushing or pulling. Extra care must therefore be taken by the operator to avoid the culmination of misleading readings.

#### 5.0 Maintenance

Care should be taken to avoid dirt entering the various tool mechanisms, as this may reduce effectiveness. The tool may be cleaned by wiping with a damp cloth. Thinners must not be used.



- > Self-positioning foot adjust to any rail, with or without side-wear
- ➤ Measures in plane of rails to allow for canted track
- > Suitable for use with raised check or conductor rails
- > Fully non-conductive construction using GRP and Nylon 6