



The **ABT4610 Laser Offset Gauge** is a folding, robust and lightweight tool for the measurement of height and distance offset readings from the running rails to a desired object or structure.

As with all Abtus measurement gauges, the ABT4610 is manufactured from hard wearing and nonconductive GRP and offers a sprung foot ensuring improved user friendliness, repeatability and accuracy of measurements.



Measurement Capability

- Platforms
- Datum Plates
- Rail Edge to Face of Structure (REFOS)
- Overhead Catenary Wire (OHL)
- Tunnel Clearance
- Signals



Through the use of Hilti's new IP65 rated PD-I Laser Range Meter and a surface mounted digital inclinometer, the user can quickly gather measurements critical for calculating accurate height and distance offset readings to a variety of structures and objects. Data is processed using Abtus' Laser Offset Software on the supplied Semi Rugged PDA; allowing the user to view data on track whilst offering easy post processing back in the office via connection to a PC.

Due to the unique way the Laser Offset Gauge operates, objects below rail height can be measured.

Whilst measurements with the ABT4610 are already fast, the user can increase measurement speed further by the addition of a second laser range meter and mounting carriage.

Provided with an Abtus protective bag the ABT4610 is easy to carry to and from site and through the simple folding mechanism requires minimal set-up time prior to use.

The ABT4610 has been approved for use by Network Rail.



Technical Specification

| | | | | | |
|--------|---|----------------------------------|-----------------|---|----------------------|
| Weight | - | 7.3Kg | Distance Offset | - | Range: 0 - 100m |
| Size | - | 1620mm x 1510mm x 265mm (in use) | | - | Accuracy: +/- 1mm |
| | - | 1620mm x 315mm x 265mm (folded) | | - | Resolution: 0.1mm |
| Cant | - | Range: +/- 199mm | Incline | - | Range: 0 - 45° |
| | - | Accuracy: +/- 1mm | | - | Accuracy: +/- 0.2° |
| | - | Resolution: 0.1mm | | - | Resolution: 0.1 |
| | | | Height Offset | - | Range: 0 - 100m |
| | | | | - | Accuracy: +/-1mm |
| | | | | - | Resolution: +/-0.1mm |