abtuslimited

Established in 1908-Excellence in rail and marine engineering

TRACK GEOMETRY

ABT4370 Data-Logging Trolley

Description

The new Abtus ABT4370 Data-Logging Trolley has been designed to collect, store and review track geometry measurements quickly and effortlessly.

With its lightweight glass-fibre and aluminium frame, the trolley is lifted on or off the track with ease and can be operated by one person. It may be assembled or dismantled in around one minute.

The powerful hand-held PDA displays track geometry values on a 3.5" TFT screen in real time as they are sent from the trolley via a wireless Bluetooth® connection. Data is stored on an SD memory card as a .CSV file type and can be transferred to a PC or Laptop to be reviewed in MS Excel®.

The trolley measures Track Twist, Super-Elevation, Gauge and distance as well as left and right Vertical Versine. There are two recording intervals, one for standard track recording and the other for a more detailed survey which are user definable.

Technical Data

Weight	-	15kg
Height	-	355mm
Length	-	1780mm
Width	-	270mm
Measures super-elevation	-	Range: ±160mm* Accuracy: 2.5mm Resolution: 0.1mm
Records distance	-	Coarse interval: 1.00m Fine interval: 0.10m-0.50m Accuracy: ±0.25%
Measures track gauge	-	Range nominal: 15mm to nominal 35mm Accuracy: 1.5mm Resolution: 0.1mm
Calculates twist using user-selectable wheelbase	-	Range: ±320mm* Accuracy: 2.5mm Resolution: 0.1mm
Measures gradient	-	Range: ±2º Accuracy: 0.1º Resolution: ±0.01º
Measures Vertical Versine left and right rails– 20m chord	-	Range: ±3mm Resolution: 0.1mm

Technical Data

Abtus Also offer a full refurbishment and upgrade package for older version ABT4370's. This includes replacement of all wheels, bearings and rollers. The existing liquid-filled tilt sensor is replaced by two 'solid-state' inclinometers for improved repeatability. The microprocessor control box is replaced with a Bluetooth PDA and the whole trolley is cleaned up as new.

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