



## Plant Approval Certificate Track plant or equipment

Engineer's Plant, submitted for LU Plant Approval, shall comply with the relevant EC Directive(s).  
Engineer's Plant, will be assessed against the appropriate LU Plant standards, numbered:

**S1171** All Plant – Acceptance, Use and Maintenance,

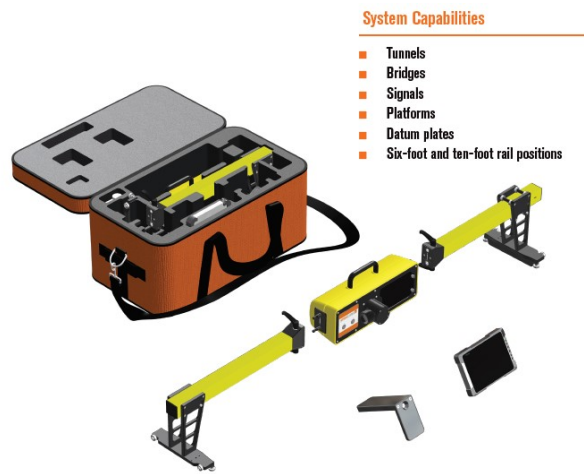
**S1172** On Track Machines – Design and Acceptance,

**S1173** On Track Plant – Design and Acceptance,

**S1174** Non - Railborne Plant – Design and Acceptance.

The LU Product Sponsor shall ensure that items submitted for approval comply with the above standards.

Compliance with other standards, Industry Best Practice and LU specific requirements shall be specified in the Plant Approval certificate.



**Description:** Insulated laser survey gauge. Battery powered 12V DC.  
**Make:** ABTUS  
**Model:** ABT5650  
**Unique Number:** Generic  
**Type of Operation:** Measurement of track geometry.  
**Area of Operation:** On LU property, in Engineering Hours, within a Possession, Specified Area or Depot with traction current OFF.

**Operational Limitations or Conditions:** **THIS EQUIPMENT HAS EC CERTIFICATION AND CARRIES THE CE MARK. ANY MODIFICATION TO THE EQUIPMENT WITHOUT PRIOR NOTIFICATION TO THE PLANT TEAM WILL INVALIDATE THE PLANT APPROVAL CERTIFICATE. MACHINE CERTIFICATION.**

1. The gauge must have a valid calibration certificate which must specify the calibration tolerance.

**STAFF CERTIFICATION**

2. Only trained and competent operators may use the gauge.

**MACHINE CONDITIONS**

- 3. The gauge must be clearly marked with a unique identification number, be subjected to a routine maintenance regime and tagged with an expiry date.
- 4. The gauge must display the maintainer's contact telephone number.
- 5. The name of the manufacturer must be marked on the gauge.
- 6. The gauge must be clean and in good working order.

**OPERATIONAL LIMITATIONS**

7. Pre-use checks must be carried out before the gauge is taken on site. To confirm accuracy and repeatability, test measurements should be recorded and then repeated after the gauge has

been rotated through 180 degrees. The batteries must be fully charged.

#### HEALTH AND SAFETY

8. The associated risk assessment must be reviewed and agreed by the local HSE representative prior to use of the equipment.
9. The battery must be checked to confirm that it is fully charged before the gauge is taken on site. It must only be charged with the battery charger specified by the manufacturer. The battery may only be charged at designated locations away from "The Track". Charging activities should be part of the fire risk assessment for the charging location/depot. The Charger must be PAT tested every three months.
10. In the event of a fire relating to the gauge evacuate the area and raise the alarm.
11. Staff using the gauge must ensure the laser is not pointed in the direction of the general public or other staff. i.e. at roads or walkways
12. Signage on the gauge must include its weight, the laser class (II) and the laser range (in metres). A protection sign (pictogram format) must warn staff not to look into the laser.
13. The gauge and any associated loose items must have high visibility reflective markings so that they can be easily located in the dark.
14. The gauge must be transported to site in its protective case.
15. The gauge must not be stored in enclosed locations in Traffic Hours. It must be removed from the site at the end of each shift.

#### MISCELLANEOUS REQUIREMENTS

16. A nominated person will be responsible for the gauge during the work shift.
17. The gauge must not be left unattended on The Track.
18. No repairs to the gauge may be carried out on site.
19. This certificate must be made available to the operator on site.
20. Notifiable incidents involving the gauge must be copied to Plant Engineering Team – TfL (PlantEngineeringTeam@tfl.gov.uk).

<b>Other Information:</b>	ABT5650 is an updated version of the already approved ABT4650 (Plant/9144).
<b>Type of Approval:</b>	Full Operational Approval - Type Approval
<b>Weight:</b>	13.6kg
<b>Powered By:</b>	Battery (12V).
<b>Documents to be Read as Part of This Certificate:</b>	<ol style="list-style-type: none"><li>1. Instruction manual.</li><li>2. Calibration certificate.</li><li>3. RouteScan User checks (issue 2).</li><li>4. Routescan Risk Assessment RA 0003.</li></ol>
<b>Period of Certification</b>	Unlimited
<b>Certificate Number</b>	Plant/9721_Rev.00

**Signed:** \_\_\_\_\_ **Date: 15/11/2021**

**Assessor: Vangelis Panas - Plant Engineer**

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**Reviewer: John Rose - Senior Plant Engineer**