

**UNITED KINGDOM  
DEFLECTOGRAPH  
ACCREDITATION TRIAL SUMMARY TEST CERTIFICATE**

Report No: 0127/L697 BKR Issue 15

**DEFLECTOGRAPH  
REGISTRATION NUMBER: L697 BKR  
TRL Reference No: 2**

Operated by **PTS** of **Britannia House,  
1 Rough Hey Road,  
Grimstargh,  
Preston**

has participated in a United Kingdom Deflectograph Accreditation trial on **25 February 2021** at HORIBA-MIRA Proving Ground, Watling Street, Nuneaton, Warwickshire, CV10 OTU under the supervision of TRL.

The above machine has been tested against the accreditation requirements as provided in "Accreditation and Quality Assurance of Deflectograph Survey Devices" document<sup>1</sup> dated June 2020.

This machine **has successfully met** the mandatory criteria for carrying out surveys on the Highways England Strategic Road Network. Its performance in each test is summarised in the Annex to this test report.

This certificate supersedes any previous certificates issued by TRL.

Signed on behalf of TRL Limited



Patrick Werro

Valid From: 25 February 2021  
Date of expiry: 25 March 2022

<sup>1</sup>This document is available from TRL or from the following website  
<https://ukrlg.ciht.org.uk/ukrlg-home/guidance/road-condition-information/data-collection/deflectograph/>.

## Test Report Annex

The following parameters must be passed to successfully meet the requirements of the accreditation trial.

| Tested Parameter                                    | Performance   |
|---|---------------|
| <b>Axle Weight Limits:</b>                          |               |
| Front Axle (permitted weight 4275-5175kg):          | <b>5052kg</b> |
| Nearside Rear Wheel (permitted weight 2857-3493kg): | <b>3122kg</b> |
| Offside Rear Wheel(permitted weight 2857-3493kg):   | <b>3280kg</b> |
| <b>Main Deflection Tests:</b>                       |               |
| Standard Deviation from the fleet mean              | <b>Pass</b>   |
| <b>Distance Measurement:</b>                        |               |
| Distance Measurement                                | <b>Pass</b>   |
| <b>Comments:</b>                                    |               |
|   |               |

The following parameters were also tested. However, they are not currently a mandatory requirement of the accreditation trial.

| Parameter  | Performance             |
|--|-------------------------|
| <b>Temperature Measurement:</b><br>The operator is required to measure the temperature of the pavement at a 40mm deep pre-drilled hole. Some Deflectographs also have air and surface temperature sensors fitted. Performance is assessed as follows:<br>HIGH: 80% of measurements within 1°C of reference<br>MEDIUM: 50% of measurements within 1°C of reference<br>LOW: 15% of measurements within 1°C of reference<br>Very Low: Otherwise |                         |
| 40mm Pavement Temperature Measurement  | <b>High</b>             |
| Air Temperature measurement  | <b>No Data Supplied</b> |
| Surface Temperature measurement  | <b>No Data Supplied</b> |
| <b>Comments:</b>   |                         |
|  |                         |