

**UNITED KINGDOM
DYNAMIC PLATE TEST DEVICES
ACCREDITATION TRIAL SUMMARY TEST CERTIFICATE**

Report No: 0159DPT/PRI 2100 0903-088 Issue 9

**GRONTMIJ HWD PRI 2100
SERIAL NUMBER: 0903-088
TRL Reference No: 45**

Operated by **Atlas Geophysical Limited**
of **Garden House, Heol Giedd, Ystradgynlais, Wales**

has participated in a United Kingdom DPT Accreditation trial on **27 September 2023** at HORIBA-MIRA Proving Ground, Watling Street, Nuneaton, Warwickshire, CV10 0TU under the supervision of TRL.

The above machine has been tested against the accreditation requirements as provided in "Accreditation and Quality Assurance of Dynamic Plate Test Survey Devices" document¹ dated September 2020.

This machine **has successfully met** the mandatory criteria. Some Network Authorities may also require specific level of performance in some or all of the additional tests. The performance of this machine in each test is summarised in the Annex to this test certificate.

Surface temperature data provided for this machine at the trial was identified as not suitable. Therefore it is **not** suitable for providing temperatures using the contactless measurement method.

This certificate supersedes any previous certificates issued by TRL.

Signed on behalf of TRL Limited



Patrick Werro

Valid From: 27 September 2023
Date of expiry: 27 October 2024

¹ This document is available from TRL or from the UKRLG website (<https://www.ciht.org.uk/ukrlg-home/guidance/road-condition-information/data-collection/dynamic-plate-test-devices-dpt/>).



Test Report 0159DPT/PRI 2100 0903-088 Issue 9 Annex

The following parameters cover the configuration of the DPT device.

Component	Parameter
Load plate type	Solid
Number of weights / buffers per side	4/4
Peak smoothing feature	N/A

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

Tested Parameter	Performance
Standard deviation of load corrected deflections	Pass
Mean Field Calibration Factor (FCF) for all sensors	Pass
Field Calibration Factor (FCF) for individual sensors	Pass
Mean Standard Deviation of the Deviation Ratio (SDDR) for all sensors	Pass
SDDR for individual sensors	Pass
Distance Travelled	Pass
Comments:	

The following parameters were also tested/reviewed. They are not currently mandatory requirements, however some Network Authorities may also require specific level of performance in some or all of these additional tests.

Tested Parameter	Performance level
OSGR coordinates (Easting and Northing)	No Data Supplied
Temperature at Depth	High
Surface temperature	Not Suitable
Air temperature	Not Suitable
Comments:	
Where fitted, DPT devices report 3-dimensional position data in Lat/Long format. The systems are assessed after the data is converted by the operator to OSGR format. To achieve the best quality OSGR data this should be converted using the official conversions provided by Ordnance Survey. 6% of the Air measurements were within 1 degree of the reference. Surface temperature measurements varied between +22 and -88 degrees.	