<u>Certificate No. C – 00195</u>

ITSO Certificate of Compliance

To: **Transmach Systems Ltd**
Unit D1, Phoenix Industrial Estate, Rosslyn Crescent
Harrow HA1 2SP

For: **TM920 Handheld POST**
Software: HL2 v5.0.1.1 Housekeeping v2.1.4.62
Card Reader: PCD-11-920-HW v2.0
Console TT v2.1.4.32435

This is to certify that the above product has been tested as required by ITSO for compliance against ITSO TS 1000 Specification Version: 2.1.4 Corrigendum 6.

Test Reports Ref: *PO_0005_Transmach_TM920 Handheld POST_Test Report Dated: 3rd July 2019*

This product supports the functions: ITSO POST and communicates within an ITSO environment as listed in Schedule A of this Certificate.

This product may only be used by ITSO Licensed Members complying with the conditions and constraints listed in Schedule B.

Signed for and on behalf of ITSO: _____

Title: **Executive Chairman**

Dated: **3rd July 2019**

Certificate Valid until: **2nd July 2026**

Schedule A

ITSO Manufacturer ID: 000381

The Transmach TM920 is a handheld ticket machine to be used on most public transportation. It uses Unicard certified POST kernel software[1].

This POST is touch screen and communicates with CMD2, CMD4 and CMD7.

The IPE's supported are represented in the following table:

IPE	Create	Modify	Accept	Delete
TYP 2 – Stored Travel Rights	✓	✓	✓	✓
TYP 14 – Entitlement	✓	✓	✓	✓
TYP 16 – ITSO ID and Entitlement	✓	✓	✓	✓
TYP 22 FR1 – Area Based Ticket	✓	✓	✓	✓
TYP 22 FR2 – Area Based Ticket	✓	✓	✓	✓
TYP 23 FR1 – Journey Ticket	✓	✓	✓	✓
TYP 23 FR2 – Journey Ticket	✓	✓	✓	✓
TYP 24 – Journey Ticket with Reservations and Special Restrictions	✓	✓	✓	✓
TYP 27 – Period Pass (space saving)	✓	✓	✓	✓
TYP 28 – Carney (space saving)	✓	✓	✓	✓
TYP 29 FR1 – Multi Journey Ticket (space saving)	✓	✓	✓	✓
TYP 29 FR2 – Multi Journey Ticket (space saving)	✓	✓	✓	✓
Transient Ticket Log FR1	✓	✓	✓	**n/a**
Transient Ticket Log FR2	✓	✓	✓	**n/a**
Transient Ticket Log FR3	✓	✓	✓	**n/a**
Transient Ticket Log FR 4	✓	✓	✓	**n/a**

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[1] Certificate C-00163 Unicard POST Kernel, HL2CE.dll version: 5.0.1.1/HousekeepingCE.dll version: 2.1.4.62
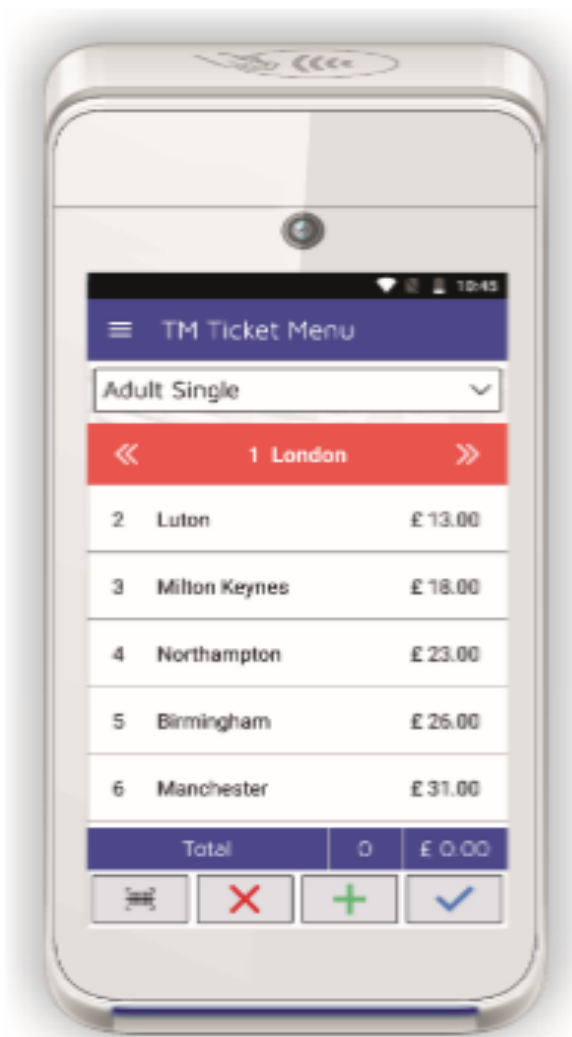
Benchmarking Results

Value Record Data Group Modification

CMD Type	Average
CMD2	531ms
CMD4	187ms
CMD7	396ms

Transient Ticket Record Creation

CMD Type	Average
CMD2	490ms
CMD7	352ms

Device Image

Schedule B

List of the conditions and/or constraints applied by ITSO.

n/a