

Australian Government

Department of Industry, Innovation and Science



36 Bradfield Road, West Lindfield NSW 2070

Supplementary Certificate of Approval NMI S797

Issued by the Chief Metrologist under Regulation 60 of the National Measurement Regulations 1999

This is to certify that an approval for use for trade has been granted in respect of the instruments herein described.

LOGR Pty Ltd model LOGR Air Point of Sale (POS) System

submitted by	LOGR Pty Ltd			
-	176 Wattl			
	Malvern	SA	5061	

NOTE: This Certificate relates to the suitability of the pattern of the instrument for use for trade only in respect of its metrological characteristics. This Certificate does not constitute or imply any guarantee of compliance by the manufacturer or any other person with any requirements regarding safety.

This approval has been granted with reference to document NMI M 7, *Pattern Approval Specifications for Point of Sale Systems*, dated June 2012.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern approved – certificate issued	23/09/20

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI S797' and only by persons authorised by the submittor.

It is the submittor's responsibility to ensure that all instruments marked with this approval number are constructed as described in the documentation lodged with the National Measurement Institute (NMI) and with the relevant Certificate of Approval and Technical Schedule. Failure to comply with this Condition may attract penalties under Section 19B of the National Measurement Act and may result in cancellation or withdrawal of the approval, in accordance with document NMI P 106.

Special

Certain aspects of this instrument (in particular transaction record printing formats) are able to be configured by the user. Whilst NMI believes that acceptable formats can be achieved for typical basic sales modes, it is also possible for the instrument to be configured to produce unacceptable formats, and use of some formats may be inappropriate for different sales modes. It is the responsibility of the user to ensure that acceptable and appropriate formats are used in any particular situation.

Special Conditions of Approval: (weighbridges)

The pattern has not been assessed for compliance with requirements which are outside the scope of document NMI M 7, including those features which control the automation of weighbridge operation, or ticket formats for public weighbridges, or 'axle weighing' or 'end-and-end weighing'.

This Certificate does not constitute or imply approval for these functions. Details of these requirements can be found on the NMI website.

Signed by a person authorised by the Chief Metrologist to exercise their powers under Regulation 60 of the *National Measurement Regulations 1999*.

Darryl Hines Manager Policy and Regulatory Services

TECHNICAL SCHEDULE No S797

1. Description of Pattern

approved on 23/09/20

A LOGR Pty Ltd model LOGR Air Point of Sale system to provide certain additional facilities for transactions when interfaced to compatible (#) NMI-approved measuring instruments granted with reference to document NMI M 7.

1.1 Key Features

- The system provides point of sale arrangements when connected to NMIapproved measuring instruments fitted with a Ranger model 5000 digital indicator (approval NMI S363) or other compatible (#) NMI-approved measuring instruments. NMI-approved measuring instruments may include Summing indicators complying with General Certificate S1/0B.
- The system receives measurement data from the output interface of the approved measuring instrument and computes prices using a product look up (PLU) facility.
- The system is able to apply a tare value up to the maximum capacity of the approved measuring instrument.
- The POS controller uses an internet connection to synchronise measurement data and retrieve transaction records using either LOGR Driver App, LOGR Air Admin Dashboard.
- (#) 'Compatible' is defined to mean that no additions/changes to the hardware/software specified in this approval are required for satisfactory operation of the system.
- Note: The measurement data processed by the LOGR Air system may be exported for the purposes of determining prices according to existing agreements. These arrangements are not assessed to the requirements of NMI Document M 7.

1.2 System Description

The LOGR Pty Ltd model LOGR Air Weighbridge Control point of sale (POS) system (Figure 1) comprises:

(i) **POS Controller**

The LOGR Air POS controller comprises a LOGR model Edge device (Figure 2) or equivalent (*) device that operates a Linux-based operating system running the following software:

- LOGR Weighbridge Control version 1.x.x software is responsible for reading and processing measurement data, computation of transaction records and issuing of transaction tickets.
- LOGR Air Sync version 1.x.x software that synchronises measurement data and transaction records to be accessed by the operator of the LOGR Driver App and LOGR Air Admin Dashboard, or other connected compatible electronic docket application.

The software version number of the Weighbridge Control Software and LOGR Air Sync software are displayed at the bottom of transaction records.

(ii) LOGR Driver App

The LOGR Driver App (Figure 3) is used to interact with the software operating on the POS Controller connected to the measuring instrument. The LOGR Driver App operates on compatible Android or iOS based operating systems.

The LOGR Driver App provides:

- method of the operator of the vehicle to view the measured weight from the measuring instrument as communicated by the POS Controller.
- method for the operator of the vehicle to confirm the details of the measurement.
- communicate to the POS Controller the details of the electronic docket of the vehicle and/or load details, including any transaction information already applied to the electronic docket.
- means to receive, record and review the details of the transaction record.
- a method for storage or export of transaction record.

The LOGR Driver App comprises LOGR eDockets software version 1.x.x and

(iii) LOGR Admin Dashboard

The LOGR Admin Dashboard (Figure 4) is used to view measurement data and transaction records that have been recorded by the LOGR Air Sync software of the POS Controller.

The LOGR Admin Dashboard is a webpage that can be accessed by any internet enabled device with a compatible web browser.

(iv) Electronic Indications

Note: There is no NMI M 7 compliant operator or customer display fitted to the POS system.

(v) Transaction Records

Note: There is no NMI M 7 compliant printing device fitted to the POS system.

Transaction records shall satisfy the requirements of document NMI M 7, *Pattern Approval Specifications for Point of Sale Systems*.

The LOGR eDocket Driver App or LOGR eDocket Admin Dashboard provide a facility to access electronic transaction records (eDocket). Transaction records are recorded in Event Storage using LOGR Air sync software for a minimum duration of 3 years. A typical record is shown in Figure 4.

Note: Transaction Records have NOT been assessed for compliance with the requirements for Weighbridge Measurement Tickets as given in relevant Licensing Directives published on the NMI website.

(iv) Multiple Instruments Facility

The LOGR Air system may be connected to multiple approved measuring instruments. Each measuring instrument is configured with a LOGR Air POS Controller (Weighbridge control software) and a unique identity which identifies the instrument, its name, its owner, and its location.

Measuring instruments are only available via the LOGR Driver App where the vehicle operator has a corresponding eDocket for that location, and are within the GPS coordinates of the mobile device running the App are within the geographical boundaries of the location.

The measuring instrument used is selected by the operator while confirming the sighted weight, prior to assigning the weights against a transaction record.

Note: In the case of this feature, each instrument/combination shall be clearly identified to correspond to the appropriate measuring instrument display shown on the transaction record. NMI trade measurement authorities may require additional markings or signs to ensure that these relationships are clear.

(v) Truck Weighing Functions

Providing functions intended specifically for truck weighing applications, including provision for 'truck and product' identification data to be stored in memory.

The truck weighing functions provide for:

- simple vehicle weighing, where the gross weight of a vehicle is determined by a single weighing;
- first/second weighing, where a vehicle is weighed before and after a loading or unloading operation;

(vi) Additional System Facilities

The system may include additional peripheral devices including but not limited to barcode scanning devices, RFID card readers, driver control stations, programmable logic controllers (PLC), input/output controllers, video surveillance cameras, video overlay devices and other plant/site-specific control systems. The facilities shall not interact with the system in a way that would cause an incorrect indication of the measured quantity or price.

1.3 Verification Provision

Provision is made for the application of a verification mark.

1.4 Descriptive Markings

The POS controller is marked in a clear and permanent manner, in one location, with the following information:

Submittor's name or mark......Serial number or other unique identifier.....Pattern approval numberNMI S797

2. Description of Variant 1

approved on 23/09/20

With the LOGR Air Weighbridge Control POS being used in conjunction with certain other 3rd party electronic docket applications (#) that provide equivalent functionality without manipulation as the LOGR Driver App described in clause 1.2 System Description. Electronic docket applications shall provide access to Transaction Records which satisfy the requirements of document NMI M 7, *Pattern Approval Specifications for Point of Sale Systems*.

(#) Note that the submittor (LOGR Pty Ltd) must be consulted regarding the acceptability of any alternative 3rd party electronic document software.

TEST PROCEDURE No S797

The POS system shall be tested in addition to any tests specified in the approval documentation for the measuring instrument/s to which the POS system is connected, as appropriate

The POS system shall be tested in the normal operational mode of the instrument and device, not in 'training mode' or any other management mode.

Maximum Permissible Error

The maximum permissible error for price computation is ± 0.5 cent.

TESTS

- 1. Check the software version number/s.
- 2. Check that the POS system faithfully reproduces the measurement data in the same units and scale interval as the connected approved measuring instrument
- 3. Perform a measurement and confirm that the POS system correctly calculates and indicates gross, tare and net measurement result.
- 4. For network systems check to ensure that the transaction record accessed using either the LOGR Driver App, approved 3rd party App (Variant 1) or the LOGR Admin Dashboard is correct.



LOGR Point of Sale (POS) System

FIGURE S797 – 2



LOGR Edge Device

FIGURE S797 – 3



LOGR Driver App

FIGURE S797 – 4

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LOGR Admin Dashboard

FIGURE S797 - 5

Example of Trade Measurement Ticket

direct Measurement Ticket			
ORIGINAL			
Ticket number acme-2163			
National Measurement Act 1960 National Trade Measurement Regulations 2009 (Division 3.2)			
Weighbridge Licence Number - Weighbridge Owner ACME Plantations Weighbridge Location Portland, Victoria			
Registration number(s) XPK336 TS100 Details of goods weighed Hardwood Chip			
Measurements (including decimals) Gross Mass 83.78 t Date and time 2020-07-02T00:49:01.594+00:00 Tare Mass 30.88 t Date and time 2020-07-02T01:20:19.511+00:00 Net Mass 52.90 t 52.90 t			
Operator nameJohn SmithDate ticket issued2020-07-02T01:21:46.030+00:00			

A Typical Transction Record (eDocket)

~ End of Document ~