



Australian Government

National Measurement
Institute

Bradfield Road, West Lindfield NSW 2070

Supplementary Certificate of Approval

NMI S648

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.

Weightrax Australia Model Weightrax Point of Sale (POS) System

submitted by Weightrax Australia Pty Ltd
Lot 19, 157 Brookfield Road
Kenmore Hills QLD 4069

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 M7, *Pattern Approval Specifications for Point of Sale Systems*, dated June 2012.

This approval becomes subject to review on 1/12/18, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern & variant 1 approved – interim certificate issued	15/11/13
1	Pattern & variant 1 approved – certificate issued	13/12/13

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI S648' and only by persons authorised by the submitter.

It is the submitter'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.

Auxiliary devices used with this instrument shall comply with the requirements of General Supplementary Certificate No S1/0B.

Special Conditions of Approval: (weighbridges)

The pattern has not been assessed for compliance with requirements which are outside the scope of document NMI M7, including those features which control the automation of weighbridge operation or ticket formats for public weighbridges.

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*.



Dr A Rawlinson

TECHNICAL SCHEDULE No S648

1. Description of Pattern

approved on 15/11/13

A Weightrax Australia model Weightrax system to provide certain additional facilities for transactions when interfaced to compatible (#) NMI-approved measuring instruments granted with reference to document NMI M7.

1.1 Key Features

- The system provides point of sale arrangements when connected to NMI-approved measuring instruments fitted with a Rinstrum model 5230 digital indicator (approval NMI S418) or other compatible (#) NMI-approved measuring instruments.
 - 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 computes total price for multiple items including non-measured items and is approved for use for transactions direct to the public.
 - Manually entered measurement data shall be indicated as such on a printed transaction record.
 - The system is able to apply a tare value up to the maximum capacity of the approved measuring instrument. Preset tare values may be keyboard-entered or stored (e.g. within a PLU facility).
 - The POS controllers may be connected in a network to share common PLU data, to accumulate and retrieve management information including information pertaining to pricing, material codes, vendor details, etc.
- (#) '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.

1.2 System Description

The Weightrax Australia model Weightrax system (Figure 1) comprises:

(i) POS Controller

The AdvanPos model EP 5500 POS controller is a server-based application where a PC-based device that operates a Microsoft Windows operating system connects to a server running Weightrax version 3.x.x.x.NMI software.

The Weightrax software version number is displayed on the Weightrax startup screen.

The POS controller is a software module that provides the measurement functionality obtained from an NMI approved indicator to the application software running a Database on a host server. The application software must not cause the system to incorrectly indicate measured quantity or price.

(ii) Electronic Indications

Indications shall satisfy the requirements of document NMI M7, *Pattern Approval Specifications for Point of Sale Systems*.

The AdvanPos model EP 5500 POS controller (Figure 2) or equivalent (*) has an integral touch sensitive display to provide an indication for the operator (Figure 3).

Note: There is no customer display fitted to the POS system.

(iii) Printing Devices

Transaction records shall satisfy the requirements of document NMI M7, *Pattern Approval Specifications for Point of Sale Systems*.

An Epson model TM 88 printer or equivalent (*) is connected to the controller to provide transaction record printing facility. A typical record is shown in Figure 4.

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

(*) 'Equivalent' is defined to mean other proprietary equipment of the same or better specifications requiring no changes to the software specified in this approval for satisfactory operation of the system.

(iv) Multiple Instruments Facility

The Weightrax Australia model Weightrax POS system may be connected to up to two (2) NMI approved measuring instruments. The POS system is configured to display the reading from the measuring instrument that is a hardwire connection.

The measuring instrument to be used is preselected by the AdvanPOS when the application is logged on.

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 POS system display. 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;
- function keys programmed to perform various functions (such as accessing and searching stored vehicle, item, product or client information).

(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 and Notices

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 number	NMI S648

2. Description of Variant 1 approved on 15/11/13

The Weightrax Australia model Weightrax software module can be setup to be used for weighing operations using a small platform weighing instrument used to weigh small amounts of scrap material.

TEST PROCEDURE No S648

The POS system shall be tested in addition to any tests specified in the approval documentation for the instruments 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.

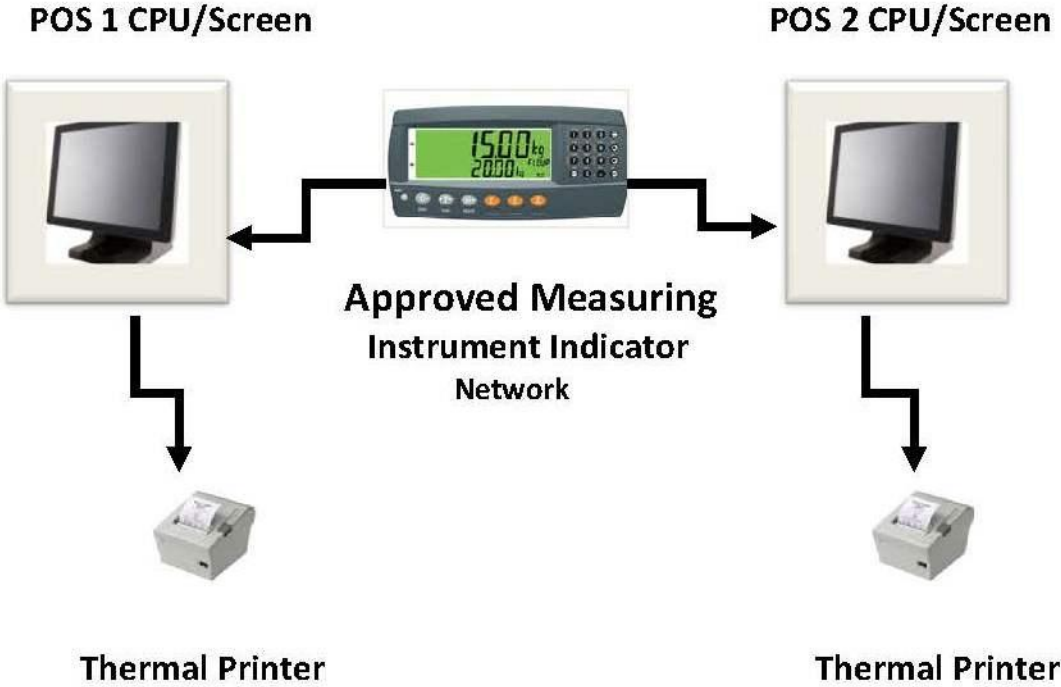
Maximum Permissible Error

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, e.g. test by using a PLU without a stored tare.
3. Check that the system performs correct price computation, and computes and indicates a correct unrounded subtotal. For cash payment methods, check that any rounding calculation is correct.
4. Perform a measurement with a preset tare applied and confirm that the POS system correctly calculates and indicates a net measurement result.
5. Manually enter some pre-determined measurement data and ensure that the printed transaction record clearly indicates the transaction as such.
6. For network systems check to ensure that the measurement data printed on the transaction record is correctly reproduced.
7. Ensure that electronic indications and printed information are in accordance with document NMI M7.

FIGURE S648 – 1



Weightrax Australia Model Weightrax Point of Sale (POS) System

FIGURE S648 – 2



Typical AdvanPos Model EP 5500 POS Controller

FIGURE S648 – 3

In/Out Scale: 4500 kg

Customer **Bakers Transport** Location Delivery Address:

Contract Order

Reference

Registration	In-kg	Out-kg	Net-kg	Material	Quantity	Lot#			
▶ 3R08	4500			Carpet			<input type="button" value="Delete"/>	<input type="button" value="Swap"/>	<input style="display:none" type="button" value="..."/>

Internal Comment

Tax \$0.00
Total Due \$0.00

Dont Print

Typical Operator Display

FIGURE S648 – 4

Brisbane Demo
Brisbane Demo System

Docket #15098
Tax Invoice
92 000 555 111ABN

06-Dec-2013 12:52:54
John Citizen Pty Ltd

Location : Brisbane
Order # : 78
Contract#: Buxton Rd Overpass
Delivery : Buxton Rd
Distance : 58 km

Registration 152KZJ

Type 2.1
Lot#: 85
Unit Price: \$25 per tonne

In Weight : 18.00t
Out Weight : 28.00t(man)
Net Weight : 10.00t

Total Net Weight 10 t
Total Charge \$275.00
Includes GST of \$25.00
Payment Type Charge
Processed By brispossiteuser
Brisbane 4133

Driver Signature :

(man) = manually entered weight

A Typical Receipt