



**Australian Government**

**National Measurement  
Institute**

Bradfield Road, West Lindfield NSW 2070

## **Supplementary Certificate of Approval**

### **NMI S574**

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.

Teraoka Model GP-4000a Point of Sale (POS) System

submitted by           W W Wedderburn Pty Ltd  
                                  101 Williamson Road  
                                  Ingleburn    NSW    2565

**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 1/09/17, and then every 5 years thereafter.

#### **DOCUMENT HISTORY**

<b>Rev</b>	<b>Reason/Details</b>	<b>Date</b>
0	Pattern approved – interim certificate issued	22/08/12
1	Pattern approved – certificate issued	14/11/12

## CONDITIONS OF APPROVAL

### **General**

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI S574' 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.

### **Special**

Certain aspects of this instrument (in particular ticket and label 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.

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

A handwritten signature in black ink, consisting of a series of loops and a long horizontal stroke at the bottom.

## TECHNICAL SCHEDULE No S574

### 1. Description of Pattern .....approved on 22/08/12

A Teraoka model Digi GP-4000A point of sale (POS) system (Figure 1) to provide certain additional facilities for transactions when interfaced to compatible (#) NMI-approved measuring instruments.

#### 1.1 Key Features

- The system provides printing arrangements when connected to NMI-approved measuring instruments fitted with a Teraoka model Digi S-WP basework (approval NMI 6/4C/272) and a Teraoka model Digi DI-80 digital indicator (approval NMI S388) 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.
  - The system is able to apply a preset 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 model Digi GP-4000A may be connected in a network to share common PLU data, for totalisation, and to accumulate and retrieve management information.
- (#) '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 model Digi GP-4000A is a printing device used to produce transaction records and labels

The system operates software version 3.xx and comprises a built-in touch sensitive display and keypad which are installed in the printer housing and are used to control and configure the printer. The software version number is displayed on the edge of the display screen (Figure 2).

##### (i) Printing Devices

Transaction records shall satisfy the requirements for printed information, of document NMI M7, *Pattern Approval Specifications for Point of Sale Systems*. A typical record is shown in Figure 3.

Labels shall satisfy the requirements for printed information of document NMI M7. Typical labels are shown in Figure 4.

##### (ii) Additional System Facilities

In addition, the system may include a keyboard or scanning devices to input relevant information. 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 Family of Devices**

Other models of the Teraoka Digi GP-4000 series of label printers (e.g. models GP-4100A, GP-4200A, etc.) that are similar to the pattern and can produce labels when connected to a compatible (#) NMI-approved weighing instrument. The GP-4000 series of printers all have a touch sensitive display with integrated keypad fitted to the housing.

(#) ‘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.

**1.4 Verification Provision**

Provision is made for the application of a verification mark.

**1.5 Sealing**

This POS device is not required to be sealed.

**1.6 Descriptive Markings**

The Digi GP-4000A printing device is marked in a clear and permanent manner, in one location, with the following information:

Submittor’s name or mark	WEDDERBURN
Serial number or other unique identifier	.....
Pattern approval mark	NMI S574

## TEST PROCEDURE

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 or in 'training mode' (#) of the instrument and device, but not in any other management mode.

(#) 'Training mode' allows normal operation except that payments do not have to be executed (completed).

### **Maximum Permissible Error**

The maximum permissible error for price computation is  $\pm 0.5$  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. As appropriate, 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. For network systems, check that the measurement data printed on the transaction record is correctly reproduced when a transaction is transferred or stored through the network.
6. Ensure that electronic indications and printed information are in accordance with document NMI M7.

FIGURE S574 – 1



Typical Teraoka Model GP-4000a POS System

FIGURE S574 – 2



Typical Main Screen (Software version in top right corner)

FIGURE S574 – 3

TEST PLU 1		
2.000 kg NET @ \$ 1.00 /kg		\$ 2.00
TEST PLU 2		
2.000 kg NET @ \$ 123.45 /kg		\$246.90
TEST PLU 3		
2.000 kg NET @ \$ 678.90 /kg		\$357.80
TEST PLU 4		
2.000 kg NET @ \$ 999.99 /kg		\$999.98
<b>ITEMS</b>		<b>4</b>
<b>TOTAL</b>		<b>\$ 1606.6</b>
28.03.12 9:56A.M. 000223 WEDDERBURN INGLEBURN 2505		
<b>DELIVERY DOCKET</b>		

Example of Transaction Record (Delivery docket)

FIGURE S574 – 4



Example of Label format (weight item)



Example of Label format (Non weight item)

Examples of Label Formats

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