Australian Government

Department of Industry,
Innovation and Science

**National
Measurement
Institute**

# Supplementary Certificate of Approval

# No S576

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.

GaP Solutions Model EZI-POS Point of Sale (POS) System

submitted by          GaP Solutions Pty Ltd
                              368 South Road
                              Richmond     SA     5033

**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 becomes subject to review on 1/08/17, and then every 5 years thereafter.

DOCUMENT  HISTORY

| Rev | Reason/Details | Date |
|---|---|---|
| 0 | Pattern approved – interim certificate issued | 31/07/12 |
| 1 | Pattern amended (validity date) – interim certificate issued | 26/10/12 |
| 2 | Pattern approved – certificate issued | 4/12/12 |
| 3 | Variant 1 provisionally approved – interim certificate issued | 4/09/13 |
| 4 | Variant 1 amended (validity date) – interim certificate issued | 21/02/14 |
| 5 | Variant 1 amended (validity date) – interim certificate issued | 08/08/14 |
| 6 | Variant 1 withdrawn – variant 2 approved – certificate issued | 19/02/15 |
| 7 | Variant 3 approved – certificate issued | 17/05/17 |

CONDITIONS OF APPROVAL

**General**

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI S576' and only by persons authorised by the submittor.

Instruments purporting to comply with this approval and currently marked 'NMI P576' may be re-marked 'NMI S576' but 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.

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 S576

## 1.    Description of Pattern                         approved on 31/07/12

A Gap Solutions model EZI-POS point of sale (POS) system to provide certain additional facilities for transactions when interfaced to compatible (#) NMI-approved measuring instruments.

### 1.1    Key Features

•    The system provides point of sale arrangements for a Magellan model 8204 self-indicating non-automatic weighing instrument (approval NMI 6/4C/201) 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 public.

•    Manually entered measurement data shall be indicated as such on a printed transaction record.

•    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 POS controllers may be connected in a network to share common PLU data, for totalisation across controllers, 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 Gap Solutions model EZI-POS point of sale (POS) system (Figure 1) comprises:

### (i)    POS Controller

The Gap Solutions model EZI-POS controller comprises an Advanpos model EP-5500 or equivalent (*) PC-based device that operates a Microsoft Windows operating system running EZI-POS version 4.x.x.x software. The software version number is displayed by clicking on the 'Lpos license key' serial number box in the upper left corner of the operator screen.

### (ii)    Electronic Indications

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

The Gap Solutions model EZI-POS POS controller includes a built-in touch sensitive computer monitor or equivalent (*) to provide an indication for the operator (Figure 2).

(*)    '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.

The EZI-POS POS controller also includes another built-in display or equivalent (*) which provides an indication for the customer (Figure 3).

### (iii)   Printing Devices

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

An Epson model M129C printer or equivalent (*) is connected to the controller to provide transaction record printing facility.  A typical record is shown in Figure 4.

(*)   '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)   Additional System Facilities

In addition, the system may include other facilities including point of sale cash drawers, magnetic card and/or barcode reader and electronic funds transfer (EFT). 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 number | NMI S576 |

## 2.   Description of Variant 1          provisionally approved on 4/09/13
                                              withdrawn on 19/02/15

**Note: The approval for this variant has been withdrawn – no instruments were ever installed using this approval.**

With a software interface which allows the model EZI-POS point of sale (POS) system to connect to the Integration Technologies model Enabler 2 PCI Controller as described in the documentation of approval NMI S518.

The EZI-POS POS system now provides point of sale arrangements for NMI-approved fuel dispensers for motor vehicles.

## 3.   Description of Variant 2                   approved on 19/02/15

The pattern will now be known as the model EZI-LPOS.

## 3.   Description of Variant 3                   approved on 17/05/15

With the pattern running running EZI-POS version 5.x.x.x software.

## TEST PROCEDURE No S576

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.
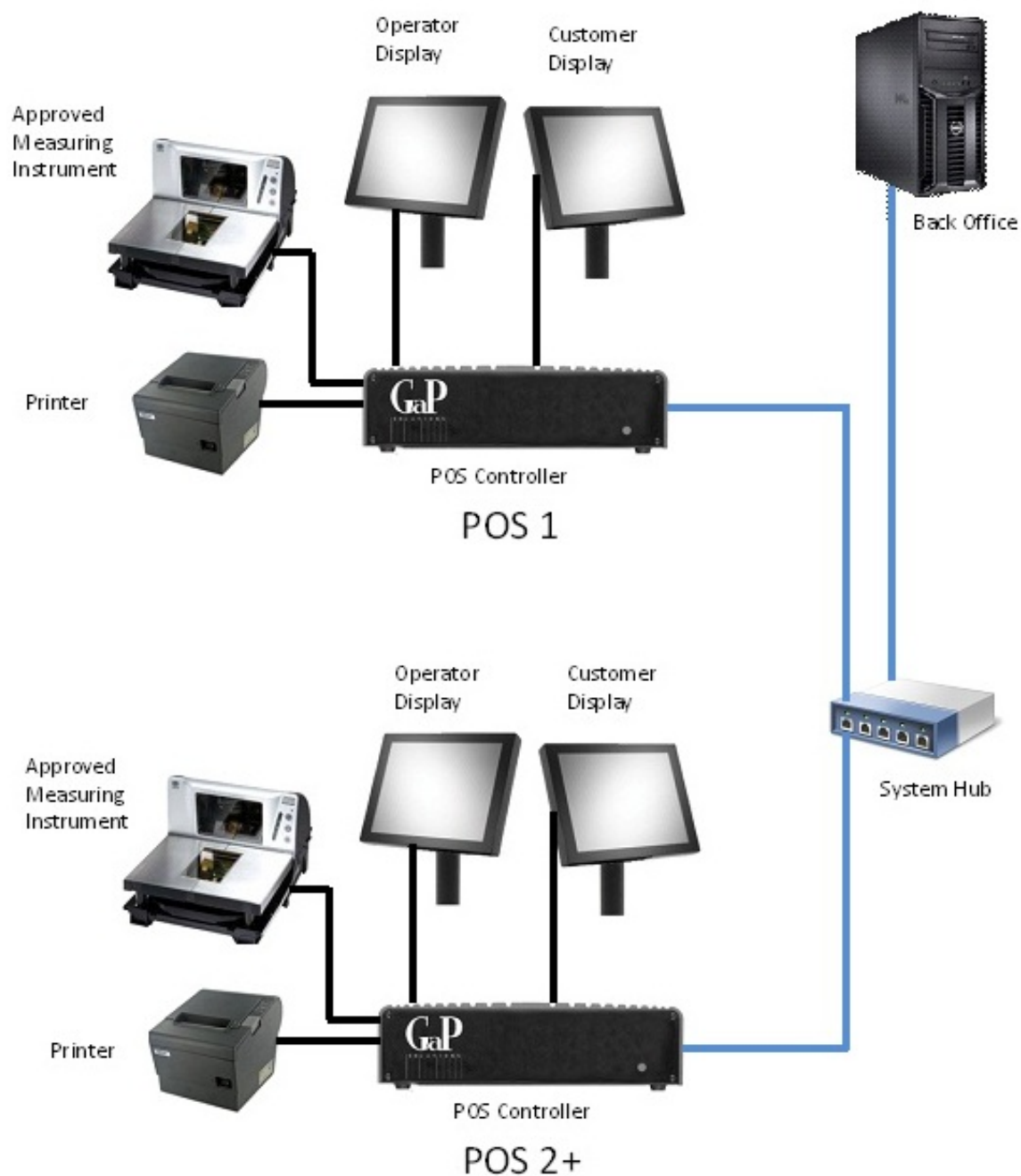
FIGURE  S576 – 1



Gap Solutions Model EZI-POS Point of Sale (POS) System

FIGURE  S576 – 2



Typical Operator Display

FIGURE  S576 – 3



Typical Customer Display

FIGURE  S576 – 4



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              GaP Solutions

10/07/2012 4:02:11 PM          GaP Service

FRUIT & VEG
APPLES GOLDEN DELS KG
 0.500 kg @ $5.99/kg              $3.00
APPLES FUJI KG
 0.496 kg @ $4.99/kg
 Tare removed: 0.004 kg          $2.48
---------------------------------------
TOTAL                          $5.48
Rounding                        -$0.02
Cash                            $10.00
CHANGE                          $4.50
Item count: 2
Trans:241        Terminal:040100005-001005

      'M' Denotes manual entered weight

      Please Retain Receipt For Refunds

      System Supplied By GaP Solutions
          www.gapsolutions.com.au
```

A Typical Receipt

~ End of Document ~