



**Australian Government**  
**National Measurement  
Institute**

Bradfield Road, West Lindfield NSW 2070

## Supplementary Certificate of Approval

### NMI S640

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.

GTICK Systems Model GSCMM Point of Sale (POS) System

submitted by GTICK Systems Pty Ltd  
Unit 1, 163 Brighton Ave  
Toronto NSW 2283

**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 1/07/18, and then every 5 years thereafter.

#### DOCUMENT HISTORY

| Rev | Reason/Details   | Date     |
|-----|--|----------|
| 0   | Pattern provisionally approved – interim certificate issued  | 21/06/13 |
| 1   | Pattern amended (validity date) – interim certificate issued | 13/12/13 |
| 2   | Pattern approved – certificate issued                        | 25/06/14 |
|     |  |          |

#### CONDITIONS OF APPROVAL

##### General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI S640' and only by persons authorised by the submittor.

Instruments purporting to comply with this approval and currently marked 'NMI PS640' may be re-marked 'NMI S640' but only by persons authorised by the submittor.

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 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, or 'axle weighing' or 'end to 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*.

A handwritten signature in black ink, appearing to read 'Dr A Rawlinson', with a horizontal line underneath.

Dr A Rawlinson

## TECHNICAL SCHEDULE No S640

### 1. Description of Pattern **provisionally approved on 21/06/13** **approved on 25/06/14**

A GTICK Systems model GSCMM 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 Bilanciai model D410 digital indicator (approval NMI S429) 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 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 GTICK Systems model GSCMM point of sale (POS) system (Figure 1) comprises:

##### (i) POS Controller

The GTICK Systems model GSCMM POS controller is a PC-based application that operates a Microsoft Windows operating system running GSCMM legally relevant version 7.001 software. The software version number is displayed on the top right corner of the Main/About display. Non-legally relevant component of the software is also shown as a second version number. (Figure 2)

The GSCMM is a software module that provides the measurement functionality to application software. The application software includes models DMS and CAS, or any other application software or system that interfaces to the approved measuring instrument via the GSCMM module. 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*.

A 3M model CT1500ss computer monitor touch sensitive computer monitor or equivalent (\*) is connected to the POS controller to provide an indication for the operator (Figure 3).

Note: There is no M7 compliant 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*.

A Hewlett Packard model M401N printer or equivalent (\*) is connected to the controller to provide transaction record printing facility. A typical record is shown in Figure 4. A manual ticket is shown in Figure 5.

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 GTICK Systems model GSCMM POS system may be connected to up to 10 (ten) approved measuring instruments in a multi deck configuration. The POS system is configured to display which measuring instrument is connected.

Multiple GTICK Systems model GSCMM POS systems may be networked.

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; and
- 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.

An additional remote display (Figure 1) may be fitted to provide supplementary information for driver instructions or additional information – this display does NOT comply with document M7 and is not approved for trade use.

**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 S640

(#) The markings may be on the controller itself or on any enclosure that contains the controller (and other components).

## TEST PROCEDURE No S640

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.

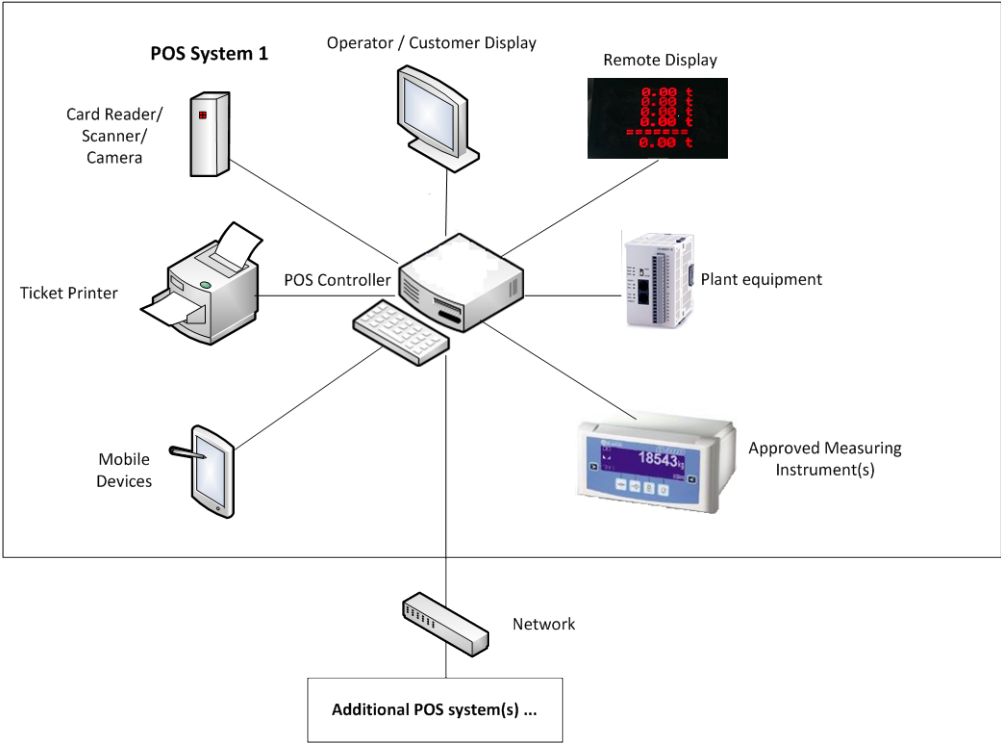
### **Maximum Permissible Error**

The maximum permissible error for price computation is  $\pm 0.5$  cent.

### TESTS

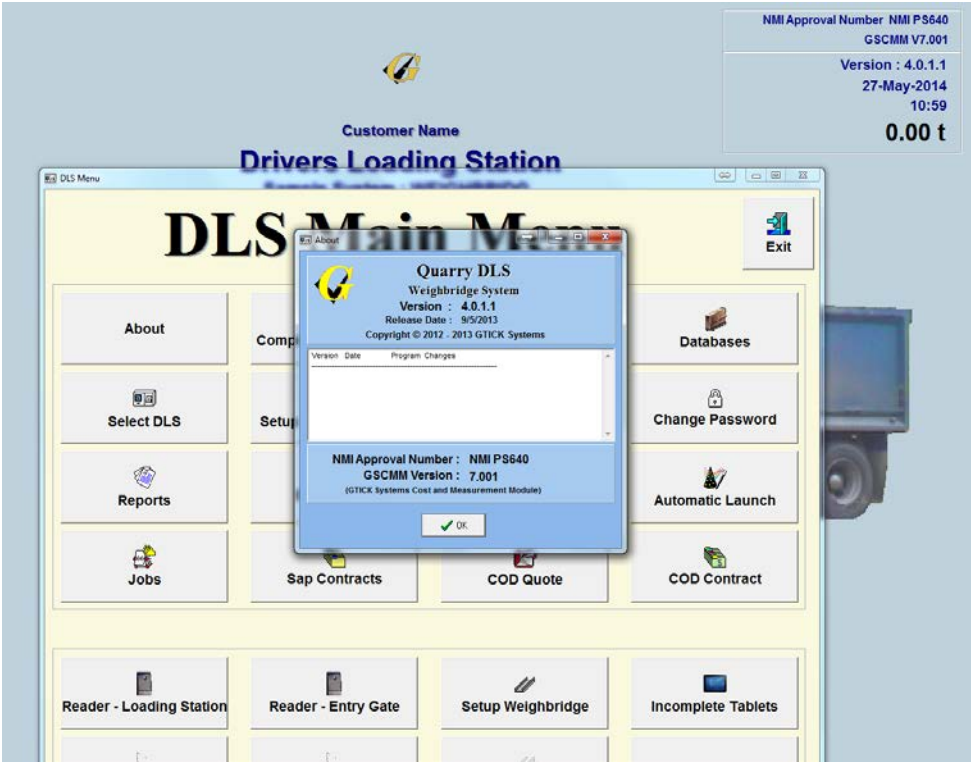
1. Check the software version number/s.
2. Check that the POS system faithfully reproduces the measurement data in the same units and scale interval as the connected approved measuring instrument, e.g. test by using a PLU without a stored tare.
3. Check that the system performs correct price computation, 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 S640 – 1




Typical GTICK Systems Model GSCMM Point of Sale (POS) System

FIGURE S640 – 2



Main and About Screens – showing GCSMM and software version numbers

FIGURE S640 – 3



**Customer Name**  
1/163 Brighton Ave, Toronto, NSW 2283

**Delivery Docket : W000000083**

|               |                              |             |            |
|---------------|------------------------------|-------------|------------|
| Despatch Date | 26-May-2014 15:21:09         | Weight      | 43.00 t    |
| Depot         | 100 Sample System            | Weighbridge | WEIGHBRIDG |
| Customer      | 190705 Barry Cheque Lowry St | Stockpile   |            |
|               |                              | Job No      | 1005       |
|               |                              | Despatched  | 0.00 t     |

|                |                            |                       |                               |
|----------------|----------------------------|-----------------------|-------------------------------|
| <b>Cardiff</b> | <b>COD Transaction</b>     | <b>Payment Method</b> | <b>CHEQUE</b>                 |
| Customer Order | 0                          | Description           | Rate Inc GST Cost             |
| Vehicle        | 119 070RRX                 | Cartage Cost          | 26.00 t @ \$8.250/t \$214.50  |
| Configuration  | Rigid                      | GMCA10                | 26.00 t @ \$23.353/t \$607.18 |
| Carrier        | QQ004 BULK GRANITE HAULAGE | <b>Sub Total</b>      | <b>\$821.68</b>               |
| Product        | GMCA10 10MM AGGREGATE      | Rounding              | \$0.00                        |
| Instructions   |                            | <b>Total Cost</b>     | <b>\$821.68</b>               |
|                |                            | GST Included in Total | \$74.70                       |

|  |              |                |
|--|--------------|----------------|
|  | <b>Gross</b> | <b>43.00 t</b> |
|  | <b>Tare</b>  | <b>17.00 t</b> |
|  | <b>Net</b>   | <b>26.00 t</b> |

Accept Transaction

Typical Operator Display

FIGURE S640 – 4



**Customer Name**  
1/163 Brighton Ave, Toronto, NSW 2283  
Ph: 02 49 599399 Fx: 02 49 599508 ABN xx xxx xxx xxxx

**Tax Invoice**



**Arrival Date** 26/05/2014 16:06      **DUPLICATE DELIVERY DOCKET :** **W000000083**

**Despatch Date** 26/05/2014 16:06      Weighbridge **WEIGHBRIDG**

**Depot** 100 Sample System      Contract **SA104**

**Job Number** 1005

**Customer** 190705 Order # 0

**Barry Cheque**

**Lowry St**

**Cardiff**

|                      |                            |                       |                               |
|----------------------|----------------------------|-----------------------|-------------------------------|
| <b>Product</b>       | GMCA10 10MM AGGREGATE      | <b>Cheque No</b>      |                               |
| <b>Vehicle</b>       | 119 070RRX                 | Description           | Rate Inc GST Cost             |
| <b>Carrier</b>       | QQ004 BULK GRANITE HAULAGE | Cartage               | 26.00 t @ \$8.250/t \$214.50  |
| <b>Stockpile</b>     | Lot No                     | GMCA10                | 26.00 t @ \$23.353/t \$607.18 |
| <b>Instructions</b>  |                            | <b>Sub Total</b>      | <b>\$821.68</b>               |
| <b>Sample System</b> |                            | Rounding              | \$0.00                        |
|                      |                            | <b>Total Cost :</b>   | <b>\$821.68</b>               |
|                      |                            | GST included in Total | \$74.70                       |

|  |              |                |
|--|--------------|----------------|
|  | <b>Gross</b> | <b>43.00 t</b> |
|  | <b>Tare</b>  | <b>17.00 t</b> |
|  | <b>Net</b>   | <b>26.00 t</b> |

Driver Declaration: By signing this docket the driver agrees that:  
 1. I have had the required rest break(s) from my last shift in compliance with my designated fatigue management system, and am fit for duty.  
 2. I have conducted a pre-start check and the vehicle is roadworthy to the limits of my inspection.  
 3. I have documentation to support statements 1 and 2 above.  
 4. I have collected goods in accordance with this delivery docket.      Driver's Signature \_\_\_\_\_

Job: 67.92t Daily: 26.00t

Typical Ticket



FIGURE S640 – 5

|    | <b>Customer Name</b><br>1/163 Brighton Ave, Toronto, NSW 2283<br>Ph: 02 49 593939 Fx: 02 49 599508 ABN xx xxx xxx xxx | <b>Tax Invoice</b><br>  |             |              |      |         |                     |          |        |                      |          |                  |  |                 |  |          |        |                     |  |                 |  |                       |         |
|---|---|--|-------------|--------------|------|---------|---------------------|----------|--------|----------------------|----------|------------------|--|-----------------|--|----------|--------|---------------------|--|-----------------|--|-----------------------|---------|
| Arrival Date  | 27/05/2014 11:58  | <b>DELIVERY DOCKET : W000000084</b>  |             |              |      |         |                     |          |        |                      |          |                  |  |                 |  |          |        |                     |  |                 |  |                       |         |
| Despatch Date   | 27/05/2014 11:58  | Weighbridge <b>WEIGHBRIDG</b>  |             |              |      |         |                     |          |        |                      |          |                  |  |                 |  |          |        |                     |  |                 |  |                       |         |
| Depot   | 100 <b>Sample System</b>  | Contract <b>SA104</b>  |             |              |      |         |                     |          |        |                      |          |                  |  |                 |  |          |        |                     |  |                 |  |                       |         |
| Job Number  | 1005  |  |             |              |      |         |                     |          |        |                      |          |                  |  |                 |  |          |        |                     |  |                 |  |                       |         |
| Customer  | 190705 Order # 0<br><b>Barry Cheque</b><br><b>Lowry St</b><br><b>Cardiff</b>  | <b>Cheque No 0</b>   |             |              |      |         |                     |          |        |                      |          |                  |  |                 |  |          |        |                     |  |                 |  |                       |         |
| Product   | <b>GMCA10 10MM AGGREGATE</b>  | <table border="0"> <thead> <tr> <th>Description</th> <th>Rate Inc GST</th> <th>Cost</th> </tr> </thead> <tbody> <tr> <td>Cartage</td> <td>26.15 t @ \$8.250/t</td> <td>\$215.74</td> </tr> <tr> <td>GMCA10</td> <td>26.15 t @ \$23.353/t</td> <td>\$610.68</td> </tr> <tr> <td colspan="2"><b>Sub Total</b></td> <td><b>\$826.42</b></td> </tr> <tr> <td></td> <td>Rounding</td> <td>\$0.00</td> </tr> <tr> <td colspan="2"><b>Total Cost :</b></td> <td><b>\$826.42</b></td> </tr> <tr> <td></td> <td>GST included in Total</td> <td>\$75.13</td> </tr> </tbody> </table> | Description | Rate Inc GST | Cost | Cartage | 26.15 t @ \$8.250/t | \$215.74 | GMCA10 | 26.15 t @ \$23.353/t | \$610.68 | <b>Sub Total</b> |  | <b>\$826.42</b> |  | Rounding | \$0.00 | <b>Total Cost :</b> |  | <b>\$826.42</b> |  | GST included in Total | \$75.13 |
| Description   | Rate Inc GST  | Cost   |             |              |      |         |                     |          |        |                      |          |                  |  |                 |  |          |        |                     |  |                 |  |                       |         |
| Cartage   | 26.15 t @ \$8.250/t   | \$215.74   |             |              |      |         |                     |          |        |                      |          |                  |  |                 |  |          |        |                     |  |                 |  |                       |         |
| GMCA10  | 26.15 t @ \$23.353/t  | \$610.68   |             |              |      |         |                     |          |        |                      |          |                  |  |                 |  |          |        |                     |  |                 |  |                       |         |
| <b>Sub Total</b>  |   | <b>\$826.42</b>  |             |              |      |         |                     |          |        |                      |          |                  |  |                 |  |          |        |                     |  |                 |  |                       |         |
|   | Rounding  | \$0.00   |             |              |      |         |                     |          |        |                      |          |                  |  |                 |  |          |        |                     |  |                 |  |                       |         |
| <b>Total Cost :</b>   |   | <b>\$826.42</b>  |             |              |      |         |                     |          |        |                      |          |                  |  |                 |  |          |        |                     |  |                 |  |                       |         |
|   | GST included in Total   | \$75.13  |             |              |      |         |                     |          |        |                      |          |                  |  |                 |  |          |        |                     |  |                 |  |                       |         |
| Vehicle   | 119   | <b>Manual Gross 42.35 t</b>  |             |              |      |         |                     |          |        |                      |          |                  |  |                 |  |          |        |                     |  |                 |  |                       |         |
| Carrier   | <b>QQ004 BULK GRANITE HAULAGE</b>   | <b>Manual Tare 16.20 t</b>   |             |              |      |         |                     |          |        |                      |          |                  |  |                 |  |          |        |                     |  |                 |  |                       |         |
| Stockpile   | Lot No  | <b>Manual Net 26.15 t</b>  |             |              |      |         |                     |          |        |                      |          |                  |  |                 |  |          |        |                     |  |                 |  |                       |         |
| Instructions  | test  | Job: 94.07t Daily: 26.15t  |             |              |      |         |                     |          |        |                      |          |                  |  |                 |  |          |        |                     |  |                 |  |                       |         |
| Sample System   |   |  |             |              |      |         |                     |          |        |                      |          |                  |  |                 |  |          |        |                     |  |                 |  |                       |         |
| <p><b>Driver Declaration: By signing this docket the driver agrees that:</b></p> <p>1. I have had the required rest breaks from my last shift in compliance with my designated fatigue management system, and am fit for duty.<br/>                 2. I have conducted a pre-start check and the vehicle is roadworthy to the limits of my inspection.<br/>                 3. I have documentation to support statements 1 and 2 above.<br/>                 4. I have collected goods in accordance with this delivery docket.</p> <p>Driver's Signature _____</p> |   |  |             |              |      |         |                     |          |        |                      |          |                  |  |                 |  |          |        |                     |  |                 |  |                       |         |

Typical Ticket with Manually Entered Measurement Data

~ End of Document ~