Australian Government

Department of Industry, Innovation and Science

National Measurement Institute

36 Bradfield Road, West Lindfield NSW 2070

Supplementary Certificate of Approval
NMI S765

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.

Bitwise model Probatch Point of Sale (POS) System

submitted by   Bitwise Pty Ltd
                    Unit 1 66 Commercial Drive
                    Shailer Park   QLD   4128

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.

This approval becomes subject to review on 1/08/23, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern approved – certificate issued	19/07/18

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI S765' 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
Pattern Approval, Policy and
Licensing Section

TECHNICAL SCHEDULE No S765

1.   Description of Pattern   approved on 19/07/18

A Bitwise model Probatch Point of Sale (POS) 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 NMI-approved measuring instruments fitted with a Rinstrum model R420 digital indicator (approval NMI S463) 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 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. 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, 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.

Note: The measurement data processed by the Probatch 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 Bitwise model Probatch point of sale (POS) system (Figure 1) comprises:

(i)   POS Controller

The Bitwise model Probatch POS controller is a PC-based device that operates a Microsoft Windows-based operating system running Probatch version 5.x software. The software version number is displayed by selecting "About" from the "Help" menu option (Figure 2).

The Probatch version 5.x software operates as an embedded module (Figure 3) in a graphical user interface system for process control functions for the site. The process control software must not cause the system to incorrectly indicate measured quantity.

The software may be known as Probatch Weighbridge version 5.x operating as a standalone weighbridge software application (Figure 4).

(ii)   Electronic Indications

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

A HP computer monitor or equivalent (*) is connected to the POS controller to provide an indication for the operator (Figures 3 and 4).

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

(iii)   Printing Devices

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

A Xerox model 1200 DPI laser printer or equivalent (*) is connected to provide a transaction record printing facility. A typical record 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 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 Probatch POS system may be connected to up to 10 approved measuring instruments. The POS system is configured to display which measuring instrument is connected.

The measuring instrument to be used is preselected by the operator prior to assigning the weights against a ticket.

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. 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;

•   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.

The Probatch POS System is also intended to be used for weighing operations using small platform weighing instruments used to weigh small amounts of scrap material.

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	Bitwise Pty Ltd
Serial number or other unique identifier	……...
Pattern approval number	NMI S765

TEST PROCEDURE No S765

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, 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 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 M 7.

FIGURE S765 – 1
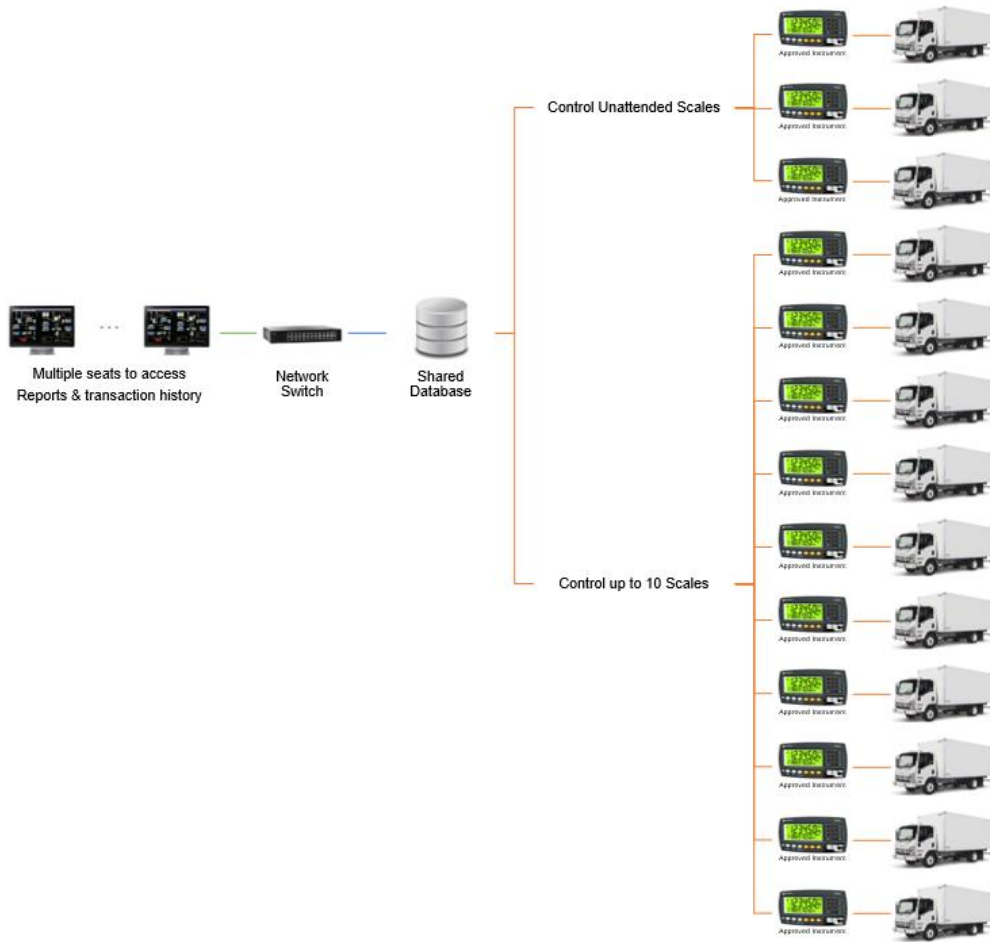
Probatch Point of Sale (POS) System

FIGURE S765 – 2

About Probatch software version display

FIGURE S765 – 3

Typical operator display for weighbridge module embedded in Probatch

FIGURE S765 – 4

Typical operator display for Probatch Weighbridge Standalone

FIGURE S765 – 5

INCOMING WEIGH TICKET

14/07/2018

probatch
the flexible control system

SUPPLIER COPY

W/Bridge Docket#:	5	Delivery Docket: N/A	Contract #: 151637	
Supplier	:	Commodity Trading Division	Supplier Docket#: N/A	
Destination	:	Bag Warehouse		
Commodity Type :		COTTONSEED MEAL 44%		

Protein (%)	:	12.00	Screenings (%): 0.00	
Moisture (%)	:	12.00		
Density (kg/hl)	:	50.00		
Treatment	:	No		
Quality	:			

Gross	:	20.30 t	21/05/2018	10:19 AM	*Manually entered weight
Tare	:	10.10 t *	14/07/2018	06:39 AM	
Net	:	10.20 t *			
Supplier Weight	:	10.200 t			

Origin of Goods	:	WAGGA		
Transport Company:		Riverina Australia (Casino)		
Truck Reg #	:	123EGJ	Trailer Reg # :	123OFK
Driver	:	Barry		
Transport Cost	:	$ 0.00		Ver: 5.2.1.9

A Typical Ticket

~ End of Document ~