Australian Government
Department of Industry, Innovation and Science

National Measurement Institute

Interim Provisional Certificate of Approval NMI PS748

VALID FOR VERIFICATION PURPOSES UNTIL 1 August 2018

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.

Doms Model PSS5000 Controller for Fuel Dispensers for Motor Vehicles

submitted by Gilbarco Australia
20 Highgate Street
Auburn NSW 2114

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 R 117 Measuring Systems for Liquids Other than Water, dated June 2011.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern provisionally approved – interim certificate issued	12/07/17
1	Special Conditions of Approval amended (number of sites) – interim certificate issued	31/08/17

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI PS748' 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 Conditions of Approval: (Provisional Approval)

This approval is limited to eight (8) sites only, the locations of which may be obtained from the National Measurement Institute. The submittor shall advise NMI in writing of the proposed location or serial number of each instrument prior to it being initially verified.

Instruments purporting to comply with this approval shall be marked with approval number 'NMI PS748' and only by persons authorised by the submittor. (Note: The 'P' in the approval number may be a temporary marking.)

The approval will remain provisional pending completion of satisfactory testing and evaluation.

The submittor shall provide NMI with copies of test results from the initial verification and all subsequent tests.

In the event of unsatisfactory performance the approval may be cancelled (or altered).

The submittor shall implement such modifications as required by NMI. In the event that such modifications (if any are required by NMI) are not made to the satisfaction of NMI, this approval may be withdrawn.

1. Description of Pattern provisionally approved on 12/07/17

A Doms model PSS5000 controller that operates as the controller for compatible (#) approved self-service control systems for Fuel Dispensers for Motor Vehicles

Note: The PSS5000 controller may be used with compatible self-service control systems that are approved to use the Postec PCC4 series controller or controller variations, as described in the approval of NMI S398.

(#) 'Compatible' is defined to mean that no additions/changes to hardware/software are required for satisfactory operation of the complete system.

1.1 Field of Operation

The field of operation of the measuring system is determined by the following characteristics:

- The controller can provide a self-serve arrangement for approved Gilbarco fuel dispensers, or other compatible (#) approved fuel dispensers.
- The controller may facilitate operation in attended or unattended self-service arrangements when interfaced with a compatible (#) approved control system for Fuel Dispensers for Motor Vehicles.

(#) 'Compatible' is defined to mean that no additions/changes to hardware/software are required for satisfactory operation of the complete system.

1.2 System Description

The PSS5000 controller provides the interface between an approved self-service control system and the fuel dispensers.

(i) Controller

The PSS5000 controller is a standalone device with communication interfaces to compatible fuel dispensers and an external self-service control system. The controller also comprises an embedded PC operating a Linux based operating system for the PSS forecourt control software. The controller may have peripherals connected to operate any compatible (#) approved control systems

The controller provides the self-service control system with the fuel dispenser control functions.

(ii) Controller Software

The Legal Authority Module (LAM version 468-90-2.XX) holds functionally subject to control by legal authorities, e.g. security telegram generator and parameters to control legally relevant functions. The LAM is a separately compiled software module, which is delivered in a special Doms binary format and with a unique 8 digit software Id. The LAM runs as a separate process.

1.3 Checking Facilities

The PSS5000 controller receives the fuel sale data (unit price, litres dispensed and total price) directly from the fuel dispenser(s). The controller monitors the status of connected fuel dispensers. Error checking verifies that transmitted data is correct.

Additional system checking facilities may be required when the controller is used in an attended or unattended self-service system. The checking facilities are described in the approval documentation for the point of sale system that is interfaced to the controller.

1.4 Verification Provision

The PSS5000 controller does not require a separate verification mark.

1.5 Sealing Provision

The PSS5000 controller does not require sealing.

1.6 Descriptive Markings and Notices

Instruments are marked with the following data, together in one location, in the form shown at right:

Manufacturer's name or mark	…….
Manufacturer's designation (model number)	…….
Pattern approval number	NMI PS748
Year of manufacture	…….
Serial number of the instrument	…….

(Note: The 'P' in the approval number may be a temporary marking.)

TEST PROCEDURE No PS748

Instruments shall be tested in conjunction with any tests specified in the approval documentation for the instruments to which the pattern is connected, as appropriate, and in accordance with any relevant tests specified in the National Instrument Test Procedures.

Maximum Permissible Errors

The maximum permissible errors are specified in the *National Trade Measurement Regulations 2009*.

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

Mr Darryl Hines