



**Australian Government**  

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**National Measurement  
Institute**

Bradfield Road, West Lindfield NSW 2070

**Cancellation**  
**Supplementary Certificate of**  
**Approval No S371**

Issued by the Chief Metrologist under Regulation 60  
of the  
*National Measurement Regulations 1999*

This is to certify that the approval for use for trade granted in respect of the

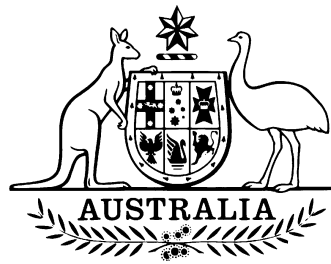
Pumpmate Model 4NPP Controller for Fuel Dispensers for Motor Vehicles

submitted by Metric Australia Pty Ltd  
(previously M.S. Industries Pty Ltd)  
15 Robert Street  
Bellevue WA 6936

has been cancelled in respect of new instruments as from 1 October 2006.

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, appearing to be 'J. H. T.', is written over the signature line.



## **National Standards Commission**

12 Lyonpark Road, North Ryde NSW

### **Supplementary Certificate of Approval**

#### **No S371**

Issued 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

Pumpmate Model 4NPP Controller for Fuel Dispensers for Motor Vehicles

submitted by Metric Australia Pty Ltd  
(previously M.S. Industries Pty Ltd)  
15 Robert Street  
Bellevue WA 6936.

**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.

### CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 December 2005, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No S371 and only by persons authorised by the submitter.

Instruments incorporating a component purporting to comply with this approval shall be marked NSC No S371 in addition to the approval number of the instrument.

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 Commission 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 the Commission's Document NSC P 106.

The Commission reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.

### DESCRIPTIVE ADVICE

**Pattern:** provisionally approved 13 October 1999  
approved 28 November 2000

- A Pumpmate model 4NPP controller for fuel dispensers for motor vehicles for use with PEC 1000 series fuel dispensers or any other Commission-approved fuel dispenser incorporating a compatible Commission-approved calculator/indicator.


Technical Schedule No S371 describes the pattern.

### FILING ADVICE

The documentation for this approval comprises:

Supplementary Certificate of Approval No S371 dated 28 February 2001  
Technical Schedule No S371 dated 28 February 2001 (incl. Test Procedure)  
Figure 1 dated 28 February 2001

Signed by a person authorised under Regulation 60 of the National Measurement Regulations 1999 to exercise the powers and functions of the Commission under this Regulation.



## TECHNICAL SCHEDULE No S371

**Pattern:** Pumpmate Model 4NPP Controller for Fuel Dispensers for Motor Vehicles.

**Submittor:** Metric Australia Pty Ltd  
15 Robert Street  
Bellevue WA 6936.

### 1. Description of Pattern

A Pumpmate model 4NPP controller for fuel dispensers for motor vehicles (Figure 1) for use with PEC 1000 series fuel dispensers or any other Commission-approved fuel dispenser incorporating a compatible Commission-approved calculator/indicator.

#### 1.1 Field of Operation

- Ambient temperature range -10°C to 55°C (class N)
- For use by registered clients

#### 1.2 Design/Features

The instrument is usually mounted directly on, or adjacent to, the fuel dispensers it controls (Figure 1). The instrument's features include:

- (i) A card-reader;
- (ii) A numeric keypad;
- (iii) A 20 character X 2 line alphanumeric liquid-crystal display (LCD);
- (iv) A function for centrally setting the unit price from 10.0 to 999.9 c/L for up to 7 grades of fuel; and
- (v) A facility to display and store in non-volatile memory the non-resettable total litres for each card, in increments of 1 L up to a maximum value of 99999 litres.
- (vi) A management facility for viewing all transaction data which may also be printed if an optional compatible printer is interfaced.

#### 1.3 Typical Sequence of Operation

- (i) Swipe the card through the card-reader; the non-resettable totals will be displayed.
- (ii) Press the ENT key followed by the fuel dispenser number; the prompt 'Pump # ready for use' will be displayed. (Note that '#' refers to the number of the dispenser selected.)
- (iii) Lift nozzle and start the delivery.
- (iv) When the delivery is completed, the amount delivered will be incremented to the non-resettable totals and can be viewed by swiping the card through the card-reader.

#### 1.4 Verification/Certification

Provision is made for the application of a verification/certification mark.

#### 1.5 Markings

Instruments are marked with the following data, together in one location:

Manufacturer's name or mark	Protek Electronics Pty Ltd
Model number	4NPP
Serial number	.....
Pattern approval mark	NSC No S371
Year of manufacture	.....
Environmental class	class N

#### TEST PROCEDURE

Instruments should be tested in conjunction with any tests specified in the approval documentation for the fuel dispensers to which the pattern is connected, as appropriate, and in accordance with any relevant tests specified in the Inspector's Handbook.

The maximum permissible errors applicable are those applicable to the fuel dispensers to which the instrument approved herein is fitted, as stated in the approval documentation for the fuel dispensers.

In addition, the following should be checked:

Authorise a fuel dispenser and make at least two deliveries of approximately 25 litres (5 times the minimum measured quantity) and ensure that for each delivery the instrument totalises the amount delivered to within  $\pm 1$  litre.

FIGURE S371 - 1



Pumpmate Model 4NPP Controller (A Typical Installation)