



# Australian Government

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## National Standards Commission

12 Lyonpark Road, North Ryde NSW 2113 Australia

### Cancellation

### Supplementary Certificate of Approval No S257

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

Email Model RT-86 Pulse Generator for Liquid-measuring Systems

submitted by    Email Petroleum Systems  
                      (formerly Email Electronics)  
                      now of  
                      33 Wedgewood Drive  
                      Hallam    VIC    3137

has been cancelled in respect of new instruments as from 1 December 2003.

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.

A handwritten signature in black ink, appearing to be "J. H. B.", written on a light-colored rectangular background.

# National Standards Commission



## Supplementary Certificate of Approval No S257

Issued under Regulation 9  
of the  
National Measurement (Patterns of Instruments) Regulations

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

Email Model RT-86 Pulse Generator for Liquid-measuring Systems

submitted by Email Electronics  
Cnr Canterbury and Liverpool Roads  
Kilsyth VIC 3137.

Signed and sealed by a person authorised under Regulation 9 of the National Measurement (Patterns of Instruments) Regulations to exercise the powers and functions of the Commission under this Regulation.

A handwritten signature in black ink, appearing to read 'J. Birch'.

CONDITIONS OF APPROVAL

This approval is subject to review on or after 1/9/94.  
This approval expires in respect of new instruments on 1/9/95.

Instruments purporting to comply with this approval shall be marked NSC No S257 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 drawings and specifications 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 106.

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

DESCRIPTIVE ADVICE

Pattern: approved 1/9/89

- An Email model RT-86 pulse generator for use in any compatible Commission-approved liquid-measuring system.

Technical Schedule No S257 describes the pattern.

FILING ADVICE

The documentation for this approval comprises:

Supplementary Certificate of Approval No S257 dated 16/3/90  
Technical Schedule No S257 dated 16/3/90 (incl. Test Procedure)  
Figure 1 dated 16/3/90



# National Standards Commission

## TECHNICAL SCHEDULE No S257

Pattern: Email Model RT-86 Pulse Generator for Liquid-measuring Systems.

Submittor: Email Electronics  
Cnr Canterbury and Liverpool Roads  
Kilsyth VIC 3137.

### 1. Description of Pattern

An Email model RT-86 solid state pulse generator (Figure 1) which produces pulses proportional to volume, when interfaced with any compatible Commission-approved liquid-measuring system.

#### 1.1 Specifications

Supply voltage:	5 to 12 volts DC	
Pulses per shaft revolution:	100 pulses/revolution	
Maximum pulser shaft speed:	600 revolutions/minute	
Output pulses:	Rectangular waveform with the following output voltage levels when used with an indicator having a 2K ohm load impedance:	
Supply voltage:	5 volts	12 volts
Output high:	5 volts	12 volts
Output low:	0.2 volts	0.2 volts

#### 1.2 Markings

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

Manufacturer's name or mark	
Model number	
Serial number	
Approval number	NSC No S257

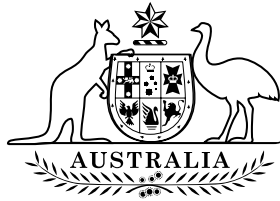
#### 1.3 Verification Provision

Provision is made for a verification mark to be applied.

TEST PROCEDURE

The maximum permissible shaft revolution of the pulse generator and the maximum flow rate of the flowmetering system shall be considered in conjunction with any tests specified in the approval documentation for the instrument 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 system to which the instrument approved herein is fitted, as stated in the approval documentation for the system.



**National Standards Commission**  
**Notification of Change**  
**Supplementary Certificate of Approval No S257**  
**Change No 1**

The following changes are made to the approval documentation for the

Email Model RT-86 Pulse Generator for Liquid-measuring Systems

submitted by Email Petroleum Systems  
(formerly Email Electronics)  
now of  
33 Wedgewood Drive  
Hallam VIC 3137.

In Supplementary Certificate of Approval No S257 dated 16 March 1990;

1. The Condition of Approval referring to the review of the approval should be amended to read:  

“This approval becomes subject to review on 1 September 1994,  
and then every 5 years thereafter.”
2. The Condition of Approval referring to the expiry of the approval should now be deleted.

Signed and sealed by a person authorised under Regulation 9 of the National Measurement (Patterns of Measuring Instruments) Regulations to exercise the powers and functions of the Commission under this Regulation.



**National Standards Commission**  
**Notification of Change**  
**Supplementary Certificate of Approval No S257**  
**Change No 2**

The following change is made to the approval documentation for the

Email Model RT-86 Pulse Generator for Liquid-measuring Systems

submitted by Email Petroleum Systems  
(formerly Email Electronics)  
now of  
33 Wedgewood Drive  
Hallam VIC 3137.

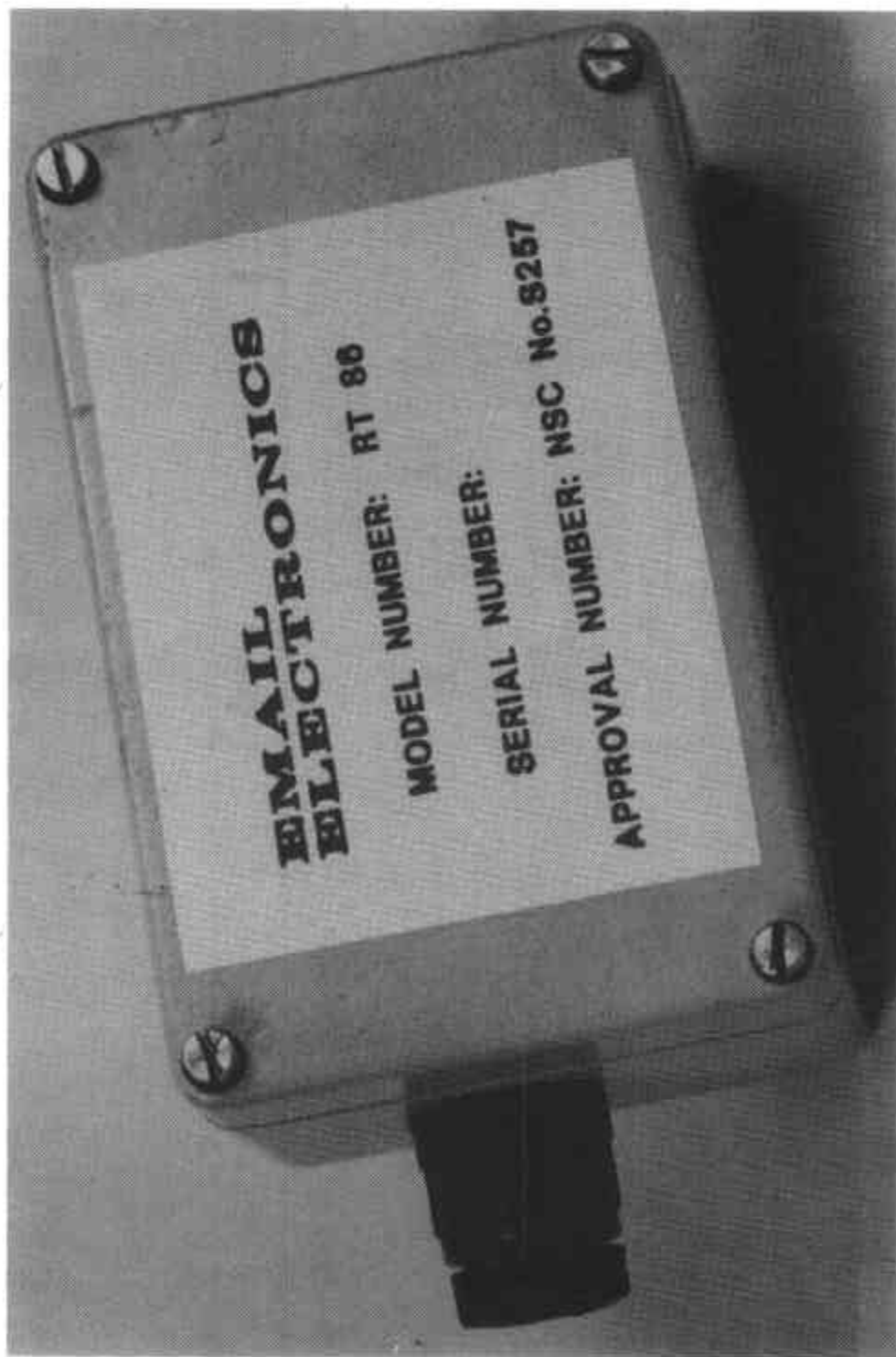
In Supplementary Certificate of Approval No S257 and its Technical Schedule, both dated 16 March 1990, and in Notification of Change No 1 dated 30 September 1997, all references to the submitter should be amended to read;

Diamond Key International Pty Limited  
110 Henderson Road  
Rowville VIC 3178.

Signed and sealed by a person authorised under Regulation 9 of the National Measurement (Patterns of Measuring Instruments) Regulations to exercise the powers and functions of the Commission under this Regulation.

A handwritten signature in black ink, appearing to read 'J. Burch', is written over a faint circular stamp.

Figure S257 - 1



Email RT-86 Pulse Generator