



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

Bradfield Road, West Lindfield NSW 2070

**Cancellation**  
**Certificate of Approval No 14/2/13**

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

ISKRA Model MT300-D2A41-G12F Electricity Meter

submitted by      Formway Metering Services Pty Ltd  
                         10 Millenium Circuit  
                         Gaven    QLD    4211

has been cancelled in respect of new instruments as from 1 July 2008.

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. G. T.', is located to the right of the signature line.

14/2/13  
20 June 2003



## National Standards Commission

12 Lyonpark Road, North Ryde NSW

### Certificate of Approval

**No 14/2/13**

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

ISKRA Model MT300-D2A41-G12F Electricity Meter

submitted by    Formway Metering Services Pty Ltd  
                      10 Millenium Circuit  
                      Gaven     QLD     4211.

**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 April 2008, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No 14/2/13 and only by persons authorised by the submitter.

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 P106.

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

### DESCRIPTIVE ADVICE

**Pattern:** approved 12 March 2003

- An ISKRA model MT300-D2A41-G12F poly-phase Class 1 static watt hour meter used to measure electrical energy.

Technical Schedule No 14/2/13 describes the pattern.

### FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 14/2/13 dated 20 June 2003

Technical Schedule No 14/2/13 dated 20 June 2003 (incl. Test Procedure)

Figure 1 dated 20 June 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.', is written on a light-colored rectangular background.

TECHNICAL SCHEDULE No 14/2/13

**Pattern:** ISKRA Model MT300-D2A41-G12F Electricity Meter

**Submittor:** Formway Metering Services Pty Ltd  
10 Millenium Circuit  
Gaven QLD 4211

## 1. Description of Pattern

An ISKRA model MT300-D2A41-G12F poly-phase Class 1 electronic direct connected static watt hour meter (Figure 1) used to measure electrical energy.

### 1.1 Field of Operation

- Number of phases 3
- Number of wires 4
- Reference frequency 50 Hz
- Reference ambient temperature ranges:
  - specified range of operation -10 to 60°C
  - limit range of operation -25 to 70°C
- Rated voltage 240/415 V AC
- Rated currents:
  - Basic current,  $I_b$  10 A
  - Maximum current,  $I_{max}$  125 A
- Accuracy index 1

### 1.2 Features/Functions

- 3 elements
- 1 optical port
- four-terminal rectangular base
- mechanical digital indicator having a maximum display of 999999.9 kW h.

### 1.3 Descriptive Markings

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

Manufacturer's name or mark	...
Model designation	...
Serial number	...
Pattern approval mark	NSC No 14/2/13
Number of phases	...
Number or wires	...
Reference frequency	... Hz
Temperature limits (if other than -10 to 60°C)	... to ...°C
Meter constant	...
Rated voltage	... AC
Rated currents:	$I_b$ ... A
	$I_{max}$ ... A
Accuracy index	1

#### **1.4 Verification/Certification**

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

#### **1.5 Sealing Provision**

Provision is made for the calibration adjustments to be sealed by sealing at least one of the screws at the bottom of the clear main cover (Figure 1).

### **TEST PROCEDURE**

Instruments tested for initial verification shall comply with the certificate of approval and technical schedule, and the maximum permissible errors for initial and subsequent verifications/certifications at the operating conditions in effect at the time of verification.

#### **TESTS**

1. AC Voltage Test - at initial verification only.
2. Running With No Load - at subsequent verifications/certifications.
3. Starting.
4. Accuracy.

14/2/13  
20 June 2003

FIGURE 14/2/13 – 1



ISKRA Model MT300-D2A41-G12F Electricity Meter