

14/2/12
5 May 2008



Australian Government
National Measurement
Institute

Bradfield Road, West Lindfield NSW 2070

Cancellation
Certificate of Approval No 14/2/12

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 MT420-D2A41-M2K02Z Electricity Meter

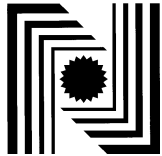
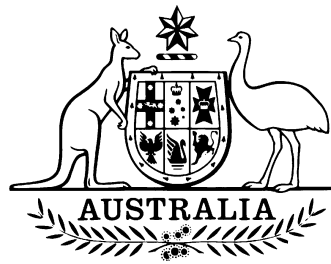
submitted by Formway Metering Services Pty Ltd
 10 Millenium Circuit
 Gaven QLD 4211

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. H. T.', written in a cursive style.

14/2/12
17 February 2003



National Standards Commission

12 Lyonpark Road, North Ryde NSW

Certificate of Approval

No 14/2/12

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 MT420-D2A41-M2K02Z 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 February 2008, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No 14/2/12 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 17 January 2003

- An ISKRA model MT420-D2A41-M2K02Z poly-phase Class 1 electronic direct connected static watt hour meter used to measure electrical energy.

Variant: approved 17 January 2003

1. Model MT420-D2A41-M2K03Z, model MT420-D2A41-M2K02, and model MT420-D2A41-M2K03.

Technical Schedule No 14/2/12 describes the pattern and variant 1.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 14/2/12 dated 17 February 2003
Technical Schedule No 14/2/12 dated 17 February 2003 (incl. Test Procedure)
Figure 1 dated 17 February 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.



TECHNICAL SCHEDULE No 14/2/12

Pattern: ISKRA Model MT420-D2A41-M2K02Z Electricity Meter

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

1. Description of Pattern

An ISKRA model MT420-D2A41-M2K02Z 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

The pattern has 3 elements, 1 optical port, 1 RS232 communications port, load profile memory, a rectangular bottom connect type base, and an 8 digit liquid crystal display (Figure 1).

1.3 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 14/2/12
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	...

1.4 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.

2. Description of Variant 1

Certain other models as listed below:

- With an RS485 communications port instead of the RS232 port – the pattern becomes model MT420-D2A41-M2K03Z;
- Without the load profile memory – the pattern becomes model MT420-D2A41-M2K02; and
- With an RS485 communications port and without the load profile memory – the pattern becomes model MT420-D2A41-M2K03.

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.

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FIGURE 14/2/12 – 1



ISKRA Model MT420-D2A41-M2K02Z Electricity Meter