

Australian Government

National Measurement Institute Bradfield Road, West Lindfield NSW 2070

Certificate of Approval NMI 14/2/68

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.

Holley Metering Model DDS28 Class 1 Electricity Meter

submitted by	Formway Gro	Formway Group Metering Pty Ltd		
	10 Millenium Circuit			
	Helensvale	QLD	4212	

NOTE: This Certificate relates to the suitability of the pattern of the instrument for use as a legal measuring instrument 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 M 6-1 *Electricity Meters. Part 1: Metrological and Technical Requirements*, July 2012.

This approval becomes subject to review on 1/10/18, and then every 5 years thereafter.

Rev	Reason/Details	Date
0	Pattern approved – interim certificate issued	13/09/13
1	Pattern approved – certificate issued	13/12/13
2	Variant 1 approved – certificate issued	8/05/15

DOCUMENT HISTORY

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI 14/2/68' 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.

Auxiliary devices used with this instrument shall comply with the requirements of General Supplementary Certificate No S1/0B.

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

Dr A Rawlinson

TECHNICAL SCHEDULE No 14/2/68

1. Description of Pattern

approved on 13/09/13

A Holley Metering model DDS28 Class 1 electronic single phase direct connect static watt hour meter (Figure 1) used to measure electrical energy.

1.1 Field of Operation

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

•	Number of phases		1
•	Number of wires		2
•	Reference frequency		50 Hz
•	Reference ambie		
	specified range of operation		-25 to 60°C
	limit range	limit range of operation	
•	Rated voltage		230 V AC
•	Rated currents:	Rated current, I _b	10 A
		Maximum current, I _{max}	100 A
•	Meter constant	Intx	1000 imp/kWh
•	Accuracy class		1

1.2 Features/Functions

- One (1) element
- Electronic (LCD) digital indicator
- Bottom connect rectangular base

Note: The pattern is NOT fitted with an internal clock.

1.3 Verification Provision

Provision is made for the application of a verification mark.

1.4 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	
Model designation	
Serial number	
Pattern approval mark	NMI 14/2/68
Number of phases	
Number or wires	
Reference frequency	Hz
Meter constant	
Rated voltage	AC
Rated currents:	I _b A
	I A
Accuracy index	Class 1

1.5 Sealing Provision

The case components are joined during manufacture and access to the calibration points requires destruction of the case, therefore no other sealing of the meter body is required.

Provision is made for the terminal cover screw to be sealed (Figure 1).

2. Description of Variant 1

approved on 8/05/15

A Holley Metering model DDS28B Class 1 electronic single phase direct connect static watt hour meter which has the same filed of operation and features/functions as described for the pattern but has some internal componentry changes including power supply.

TEST PROCEDURE No 14/2/68

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

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

Meters shall be verified in accordance with NITP 14 National Instrument Test Procedures for Utility Meters.

Evidence of verification shall be confirmed via the meter serial number and certificate of verification issued by a utility meter verifier in accordance with NITP 14.

NOTE: NMI reserves the right to vary this procedure. Any such variation shall be notified in writing by NMI.



Holley Metering Model DDS28 Class 1 Electricity Meter (Incl. Provision for Sealing of the Terminal Cover Screw) – Pattern

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