



Australian Government
Department of Industry,
Innovation and Science

National Measurement Institute

Supplementary Certificate of Approval

NMI S357

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.

Digi Model DI-170 Digital Indicator

submitted by W W Wedderburn Pty Ltd
 101 Williamson Road
 Ingleburn NSW 2565

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.

This approval has been granted with reference to document NMI R 76, *Non-automatic weighing instruments, Parts 1 and 2*, dated July 2004.

This approval becomes subject to review on **1/4/21**, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern approved – interim certificate issued	27/05/98
1	Pattern approved – certificate issued	5/08/98
2	Pattern amended (review date & technical schedule) – notification of change issued	1/02/05
3	Pattern amended (review date, filing advice, address & test procedure) – notification of change issued	14/12/10
4	Pattern reviewed & updated – certificate issued	28/03/17

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with approval number 'NMI or (NSC) S357' and only by persons authorised by the submittor.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI or (NSC) S357' in addition to the approval number of the instrument, 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 Certificates No S1/0/A or No S1/0B.

The values of the performance criteria (maximum number of scale intervals etc.) applicable to an instrument incorporating the pattern approved herein shall be within the limits specified herein and in any approval documentation for the other components.

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 S357

1. Description of Pattern approved on 27/05/98

A Digi model DI-170 digital indicator (Figure 1 and Table 1) which is approved for use with up to 6000 verification scale intervals and which may be fitted with output sockets for the connection of auxiliary and/or peripheral devices.

The integral printer shown in Figure 1 is optional.

1.1 Zero

A zero-tracking device may be fitted.

The instrument has a semi-automatic zero-setting device with a nominal range of not more than 4% of the maximum capacity of the instrument.

The instrument may have an initial zero-setting device with a nominal range of not more than 20% of the maximum capacity of the instrument.

1.2 Tare

A semi-automatic and/or a keyboard-entered preset subtractive taring device, each having a capacity of up to the maximum capacity of the instrument, may be fitted.

1.3 Display Check

A display check is initiated whenever power is applied.

1.4 Sealing Provision

Provision is made for the calibration adjustment to be sealed by means of destructible labels across the join of the casing halves on the side of the instrument and over the span switch access cover at the rear of the instrument.

1.5 Verification Provision

Provision is made for the application of a verification mark.

1.6 Descriptive Markings and Notices

Instruments carry the following markings, in the form shown at right:

Manufacturer's mark, or name written in full
Name or mark of manufacturer's agent
Indication of accuracy class	Ⓜ
Maximum capacity (for each range)	<i>Max</i> kg #1
Minimum capacity (for each range)	<i>Min</i> kg #1
Verification scale interval (for each range)	<i>e</i> = kg #1
Serial number of the instrument
Pattern approval mark for the indicator	NMI/NSC S357
Pattern approval mark for other components #2

#1 These markings are also shown near the display of the result if they are not already located there.

#2 May be located separately from the other markings.

In addition, instruments not greater than 100 kg capacity carry a notice stating NOT TO BE USED FOR TRADING DIRECT WITH THE PUBLIC, or similar wording.

1.7 Dual Basework Facility

The indicator may be connected to two baseworks at the same time. The basework in use is selected using the SCALE button.

1.8 Management Function

Instruments may be fitted with a 'counting' management function which is not approved for trade use.

TABLE 1 – Specifications

Maximum number of verification scale intervals	6 000 (class ③)
Minimum sensitivity	0.8 μ V / scale interval
Excitation voltage	12 V DC
Maximum excitation current	280 mA

TEST PROCEDURE No S357

Instruments should be tested in accordance with any relevant tests specified in the National Instrument Test Procedures.

Maximum Permissible Errors

The maximum permissible errors are specified in Schedule 1 of the *National Trade Measurement Regulations 2009*.

FIGURE S357 – 1



Digi Model DI-170 Digital Indicator

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