

Australian Government

National Measurement Institute Bradfield Road, West Lindfield NSW 2070

# Interim Provisional Supplementary Certificate of Approval NMI PS676

### VALID FOR VERIFICATION PURPOSES UNTIL 1 MAY 2015

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.

Leon Engineering Model LD 5290 Digital Indicator

submitted by Grainline 1 Hartog Place Wagga NSW 2650

**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.

#### DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern provisionally approved – interim certificate issued	23/10/14

CONDITIONS OF APPROVAL

#### General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI PS676' 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.

## Special

Certain aspects of this instrument (in particular transaction record printing formats) are able to be configured by the user. Whilst NMI believes that acceptable formats can be achieved for typical basic sales modes, it is also possible for the instrument to be configured to produce unacceptable formats, and use of some formats may be inappropriate for different sales modes. It is the responsibility of the user to ensure that acceptable and appropriate formats are used in any particular situation.

## Special Conditions of Approval: (Provisional Approval)

This approval is limited to one (1) instrument located at Baratook Agriculture, 453 Kurweeton Lara Road, Derrinallum Vic 3325.

The instrument purporting to comply with this approval shall be marked with approval number 'NMI PS676' and only by persons authorised by the submittor. (Note: The 'P' in the approval number may be a temporary marking.)

The approval will remain provisional pending completion of satisfactory testing and evaluation.

The submittor shall provide NMI with copies of test results from the initial verification and all subsequent tests.

In the event of unsatisfactory performance the approval may be cancelled (or altered).

The submittor shall implement such modifications as required by NMI. In the event that such modifications (if any are required by NMI) are not made to the satisfaction of NMI, this approval may be withdrawn.

## 1. Description of Pattern provisionally approved on 23/10/14

A Leon Engineering model LD5290 non-automatic self-indicating digital indicator with the specifications listed in Table 1 which may be configured to form part of a class ID or class ID weighing instrument with a single or multiple range (two Ranges) weighing instrument.

This approval does not include the use of the indicator as an automatic weighing instrument, unless specifically mentioned in a certificate of approval for such an instrument.

#### TABLE 1 – Specifications

Maximum number of verification scale intervals 10 000 or 10 000 per range (class 💷) 1000 or 1000 per range (class IIII) 0.4 µV / scale interval Minimum sensitivity 5 V DC Excitation voltage Maximum excitation current 142.86 mA Fraction of maximum permissible error  $p_i = 0.5$ 35 Ω Minimum load cell impedance Maximum load cell impedance 1000 Ω Measuring range minimum voltage -1.25 mV Measuring range maximum voltage 20 mV Maximum tare range -100% Max Operating temperature range -10°C to +40°C Load cell connection 6-wire shielded

## TEST PROCEDURE No PS676

Instruments shall 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*.

For multiple range instruments with verification scale intervals of  $e_1$ ,  $e_2$  ..., apply  $e_1$  for zero adjustment, and maximum permissible errors apply  $e_1$ ,  $e_2$  ..., as applicable for the load.

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**