



Australian Government
**National Measurement
Institute**

Bradfield Road, West Lindfield NSW 2070

Notification of Change
Certificate of Approval No 15/1/152
Change No 2

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

The following changes are made to the approval documentation for the
Leco Model FP-328 Grain Protein Measuring Instrument.

In Technical Schedule No 15/1/152 dated 24 June 2004;

1. Clause **1. Description of Pattern** should be amended to read, in part:
“... to determine the protein content of a sample of barley or wheat
grain, **and display the value in increments of 0.1%.**”
2. Clause **1.2 Markings**, should be amended by replacing the text with the
following:

“Instruments carry the following markings:

Manufacturer's mark, or name written in full
Pattern approval mark for the instrument	NSC No 15/1/152
Approved operating range	... to ...% protein
Model designation
Serial number of the instrument
Grain type”

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 written over the signature line.

15/1/152
15 March 2007

15/1/152
20 October 2004



Australian Government

**National Measurement
Institute**

12 Lyonpark Road, North Ryde NSW 2113

Notification of Change
Certificate of Approval No 15/1/152
Change No 1

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

The following change is made to the approval documentation for the

Leco Model FP-328 Grain Protein Measuring Instrument.

In Technical Schedule No 15/1/152 dated 24 June 2004, clause **2. Description of Variant 1** should be amended by adding the following three (3) instruments to the list of approved models:

“Also models CHN-1000, CHN-2000 and NS-2000.”

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.', located at the bottom right of the page.



Australian Government

National Standards Commission

12 Lyonpark Road, North Ryde NSW 2113 Australia

Certificate of Approval

No 15/1/152

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

Leco Model FP-328 Grain Protein Measuring Instrument.

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 does NOT permit the verification/certification of new instruments. It does not become subject to review.

Instruments purporting to comply with this approval shall be marked NSC No 15/1/152.

This approval applies only to existing instruments in the field; they may be verified/certified, and verified/certified again after repairs, at the discretion of the relevant trade measurement authority.

Instruments may be relocated and reinstalled but shall not be altered in any way other than to replace damaged components with equivalent components.

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

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

DESCRIPTIVE ADVICE

Pattern: approved 23 June 2004

- A Leco model FP-328 measuring instrument used to determine the protein content of a sample of barley or wheat grain.

Variant: approved 23 June 2004

1. Certain other Leco grain protein measuring instruments.

Technical Schedule No 15/1/152 describes the pattern and variant 1.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 15/1/152 dated 24 June 2004

Technical Schedule No 15/1/152 dated 24 June 2004 (incl. Test Procedure)

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. T.', located in the bottom right corner of the page.

TECHNICAL SCHEDULE No 15/1/152

Pattern: Leco Model FP-328 Grain Protein Measuring Instrument

1. Description of Pattern

The pattern is a Leco model FP-328 measuring instrument used to determine the protein content of a sample of barley or wheat grain.

1.1 Verification/Certification Provision

Provision is made for a verification/certification mark to be applied.

1.2 Markings

Instruments shall be marked NSC No 15/1/152.

2. Description of Variant 1

Certain other Leco grain protein measuring instruments as listed below:

Models FP-428, FP-528, FP-528LC, FP-2000, and CN-2000,

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.

Instruments shall comply with the requirements of, and shall be tested in conjunction with any relevant tests in, NSC document *NSC M8, Pattern Approval Specifications for Protein Measuring Instruments for Grain*.

Maximum Permissible Error at Verification/Certification

The maximum permissible error applied during a verification/certification test are:

±0.5% of the quantity of barley measured; and

±0.4% of the quantity of wheat measured.