



Australian Government

**National Measurement
Institute**

Bradfield Road, West Lindfield NSW 2070

Notification of Change

Supplementary Certificate of Approval No S468

Change No 1

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

Ohaus Model CKW-55 Digital Indicator

submitted by Ohaus Corporation
now of 7 Campus Drive, Suite 310
Parsippany NJ 07054
USA.

- A. In Supplementary Certificate of Approval No S468 dated 18 January 2006;
1. The Condition of Approval referring to the review of the approval should be amended to read:
"This approval becomes subject to review on 1 January **2016**, and then every 5 years thereafter."
 2. The FILING ADVICE should be amended by adding the following:
"Notification of Change No 1 dated 13 April 2011"
- B. In Supplementary Certificate of Approval No S468 and its Technical Schedule both dated 18 January 2006, all references to the address of the submitter should be amended to read:
"7 Campus Drive, Suite 310
Parsippany NJ 07054
USA"

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, consisting of a series of loops and flourishes, positioned to the right of the signature text.



Australian Government
**National Measurement
Institute**

12 Lyonpark Road, North Ryde NSW 2113

Supplementary Certificate of Approval
No S468

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
Ohaus Model CKW-55 Digital Indicator

submitted by Ohaus Corporation
19A Chapin Road
Pine Brook NJ 07058
USA.

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 January 2011, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked with approval number 'NMI S468' and only by persons authorised by the submitter.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI S468' in addition to the approval number of the instrument.

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 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.

The National Measurement Institute 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 General Supplementary Certificate No S1/0/A.

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

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.

DESCRIPTIVE ADVICE

Pattern: approved 15 December 2005

- An Ohaus model CKW-55 single interval digital indicator.

Technical Schedule No S468 describes the pattern.

FILING ADVICE

The documentation for this approval comprises:

Supplementary Certificate of Approval No S468 dated 18 January 2006
Technical Schedule No S468 dated 18 January 2006 (incl. Table 1 and
Test Procedure)
Figures 1 and 2 dated 18 January 2006



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.

TECHNICAL SCHEDULE No S468

Pattern: Ohaus Model CKW-55 Digital Indicator

Submittor: Ohaus Corporation
19A Chapin Road
Pine Brook NJ 07058 USA



1. Description of Pattern

An Ohaus model CKW-55 digital mass indicator (Table 1 and Figure 1) which may be configured to form part of a weighing instrument with a single weighing range of up to 10 000 verification scale intervals.

The instrument has an LED display including provision for display of the weight value and for alphanumeric information/menus.

Instruments may be fitted with output sockets (output interfacing capability) for the connection of auxiliary and/or peripheral devices.

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
Minimum sensitivity	1 μ V/scale interval
Excitation voltage	5 V DC
Maximum excitation current	57.5 mA

1.1 Zero

Zero is automatically corrected to within $\pm 0.25e$ whenever the instrument comes to rest within $0.5e$ of zero.

The instrument has a semi-automatic zero-setting device (to set the instrument to within $\pm 0.25e$ of zero) with a nominal range of not more than 4% of the maximum capacity of the instrument.

The instrument has 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 non-automatic keyboard-entered pre-set subtractive tare device, each of up to maximum capacity may be fitted.

In addition, an automatic subtractive taring device of up to the maximum capacity of the instrument may be fitted.

When a taring device is in use, the gross value and tare value may be displayed temporarily by the use of the G/N/T button.

1.3 Display Check

A display check is initiated whenever power is applied.

1.4 Power Supply

The instrument operates from mains AC power (100–240 V AC, nominal) or by optional internal rechargeable batteries.

1.5 Additional Features

The indicator also has additional functions including 'under/accept/over' display, accumulation of statistical information regarding weighings, and a 'library' function to allow storing/recall of 'under/accept/over' values and pre-set tare values against ID numbers.

The additional functions (other than the indications of measured mass, i.e. gross, tare, net, totals, displayed either on the indicator or on an auxiliary or peripheral device) are not approved for trade use.

1.6 Linearisation Facility

Instruments are fitted with a programmable single-point linearisation correction facility.

1.7 Markings and Notices

Instruments carry the following markings:

Manufacturer's mark, or name written in full	Ohaus Corporation
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
Maximum subtractive tare	<i>T</i> = - kg #2
Serial number of the instrument
Pattern approval mark for the indicator	S468
Pattern approval mark for other components #3

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

#2 This marking is required if *T* is not equal to *Max*.

#3 May be located separately from the other markings.

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

1.8 Verification/Certification Provision

Provision is made for the application of a verification/certification mark.

1.9 Sealing Provision

Provision is made for the calibration adjustments in the Ohaus model CKW-55 digital indicator to be protected by correct setting of the 'cal' switch within the instrument and then sealing to prevent access within the instrument by means of destructible labels over the access screws on each side of the indicator (Figure 2).

The calibration is only protected when the instrument has been configured in 'Legal For Trade' mode and then the 'cal' switch set to protect the calibration. This can be checked by switching the indicator off and then on – in the start up display sequence, 'LFTon' will be shown indicating that the calibration has been set and protected correctly.

TEST PROCEDURE

Instruments should be tested in conjunction with any tests specified in the approval documentation for the instrument to which the pattern is connected, as appropriate, and in accordance with any relevant tests specified in the Uniform Test Procedures.

Maximum Permissible Errors at Verification/Certification

The maximum permissible errors for increasing and decreasing loads on initial verification/certification for loads, m , expressed in verification scale intervals, e , are:

- $\pm 0.5e$ for loads $0 \leq m \leq 500$;
- $\pm 1.0e$ for loads $500 < m \leq 2\,000$; and
- $\pm 1.5e$ for loads $2\,000 < m \leq 10\,000$.

FIGURE S468 – 1



Ohaus Model CKW-55 Digital Indicator

S468
18 January 2006

FIGURE S468 – 2



At least one screw on each side of the indicator to be sealed

Showing Sealing Details