Australian Government
Department of Industry, Science and Resources

National Measurement Institute

36 Bradfield Road, West Lindfield NSW 2070

Certificate of Approval

NMI 6/4D/408

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.

Avery Berkel Model X-Pro 400 Weighing Instrument

submitted by Avery Berkel (a Division of ITW Limited)
Foundry Lane
Smethwick
West Midlands B66 2LP
UK

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 October 2015.

This approval is subject to review at the decision of the Chief Metrologist in accordance with the conditions specified in the document NMI P 106.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern & variants 1 to 5 approved – certificate issued	07/10/25

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI 6/4D/408' and only by persons authorised by the submittor.

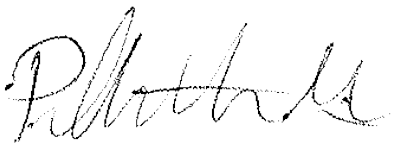
It is the submittor's responsibility to ensure that all instruments marked with this approval number are constructed as described in the documentation lodged with the National Measurement Institute (NMI) and with the relevant Certificate of Approval and Technical Schedule. Failure to comply with this 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 of Approval No S1/0B.

Special Conditions of Approval

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.

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



Phillip Mitchell
A/g Manager
Policy and Regulatory Services

TECHNICAL SCHEDULE No 6/4D/408

1. Description of Pattern approved on 07/10/25

An Avery Berkel model X-Pro 400 class (III) non-automatic self-indicating, price-computing, multi-interval weighing instrument (Figure 1) with a verification scale interval (e_1) of 0.002 kg up to 6 kg and a verification scale interval (e_2) of 0.005 kg from 6 kg up to the maximum capacity of 15 kg and with a minimum capacity of 0.040 kg.

Instruments are fitted with a column-mounted TFT colour touchscreen operator display/keyboard and a column-mounted TFT colour customer display. The operator touchscreen consists of displays for presentation of tare, weight, unit price and price information, zero, 'net' indicators and functions relating to product look up (PLU) items.

Instruments are fitted with an integral printer, for printing of labels or tickets (#).

Instruments have unit price to $9999.99/kg, price to $99999.99, and a product look up (PLU) facility.

Instruments may be fitted with output sockets (output interfacing capability) for the connection of auxiliary and/or peripheral devices; this may include USB and ethernet interfaces.

Instruments may be fitted with Pre-pack Print Mode for printing labels when the instrument is used for pre-packaging operation. Only Pre-pack Print Mode for printing labels should be used for pre-packaging operation.

The instrument operates from mains AC power (240 V AC, 50 Hz).

(#) Refer to the Special Condition of Approval in the certificate.

1.1 Zero

A zero-tracking device may be fitted.

The initial zero-setting device of the pattern has a nominal range of approximately 20% of the maximum capacity of the instrument.

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 has an automatic zero setting device (which operates only when the instrument has been stable below zero for at least 5 seconds) with a nominal range of not more than 4% of the maximum capacity of the instrument.

1.2 Tare

A semi-automatic subtractive tare device of up to the maximum capacity of the instrument may be fitted.

A keyboard-entered pre-set subtractive tare device may be fitted.

Pre-set tare values may be associated with product look up (PLU) items.

The maximum pre-set tare value is equal to the limit of the first partial weighing range (Max_1).

A separate display is provided for both pre-set tare and semi-automatic tare. The tare value is displayed as a negative mass value when the load receptor is empty.

1.3 Display check

The instrument has a TFT, WVGA colour non-segmented display. A display check at power on is not required.

1.4 Networking

A number of X-Pro series instruments may be connected in a network to share common PLU data, and to accumulate and retrieve management information.

In addition, the instrument may be interfaced with a computer for the collection of management data and the downloading of PLU data.

Note: The weighing and price computing functions of each weighing instrument in the network are independent, and the removal, repair or replacement of a particular weighing instrument does not necessitate re-verification of any other weighing instrument in the network.

1.5 Levelling

Instruments are provided with adjustable feet and a level indicator. The level indicator (bubble) is located underneath the load receptor. A notice indicating the location of the level indicator (e.g. “Spirit level under pan”, or similar) shall be provided in a location clearly visible to the operator. A graphic of the level indicator’s location shall be provided alongside the notice.

The instrument is to be used in a level condition as indicated by the level indicator.

1.6 Descriptive Markings and Notices

Instruments are marked with the following data, together in one location, in the form shown at right:

Manufacturer’s mark, or name written in full	……..
Indication of accuracy class	(III)
Pattern approval number for the instrument	NMI 6/4D/408
Maximum capacity	*Max* ...../..... g or kg #1
Minimum capacity	*Min* ..... g or kg #1
Verification scale interval	*e* = .../..... g or kg #1
Maximum subtractive tare	*T* = −……. g or kg #2
Serial number of the instrument	……..

#1 These markings are shown near the display.

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

Note:

For single interval instruments (see variant 2) there is only one range therefore only one value of maximum capacity and verification scale interval to be marked.

1.7 Verification Provision

Provision is made for the application of a verification mark.

1.8 Sealing Provision

Provision is made for the configuration parameters and calibration adjustments to be sealed by means of a destructible adhesive label placed over both the securing screw and the access hole to the service mode switch as shown in Figure 2.

The seal can be viewed underneath the transparent cover, located in the centre of the top housing on the left-hand side of the instrument, when viewed from the vendor side, after removal of the load receptor (Figure 2).

1.9 Software

The software for the instruments is segregated into legally relevant and non-legally relevant modules. Legally relevant software parts include:

- Load cell software: ABR30-000485 V6.x.x.x
- Legally relevant library software: V3.x.x.x
- Application software: ABR30-000490 V6.x.x.x
- Validation library software: V2.x.x.x

where 'x' represents minor software updates.

The software versions and numbers can be seen by pressing the  key, then pressing the 'About' key, then pressing the 'Details' button. It may also be printed by pressing the 'Print' key.

2. Description of Variant 1 approved on 07/10/25

Certain other capacities of the Avery Berkel X-Pro 400 multi-interval instruments as listed in Table 1 below (the pattern is shown in **bold**).

TABLE 1

Maximum Capacity (Max_1 / Max_2)	Minimum Capacity (Min)	Verification Scale Interval (e_1 / e_2)	Maximum Subtractive Tare Capacity (T = −…)
3 / 6 kg	0.02 kg	1 / 2 g	6 kg
6 / 15 kg	**0.04 kg**	**2 / 5 g**	**15 kg**
15 / 30 kg	0.10 kg	5 / 10 g	30 kg

3. Description of Variant 2 approved on 07/10/25

Certain capacities of the Avery Berkel X-Pro 400 single interval instruments as listed in Table 2 below:

TABLE 2

Maximum Capacity (Max)	Minimum Capacity (Min)	Verification Scale Interval (e)	Maximum Subtractive Tare Capacity (T = - …)
6 kg	0.02 kg	1 g	6 kg
15 kg	0.10 kg	5 g	15 kg
30 kg	0.10 kg	5 g	30 kg
30 kg	0.20 kg	10 g	30 kg

The maximum pre-set tare value is equal to the maximum capacity of the instrument for single interval instruments.

4. Description of Variant 3 approved on 07/10/25

The Avery Berkel X-Pro 200 single or multi-interval instruments which are similar to the pattern but the operator display/keyboard is attached to the main instrument housing rather than mounted on the column (Figure 3).

The X-Pro 200 instruments may be in any capacity listed for the X-Pro 400 (the pattern and variants 1 & 2).

5. Description of Variant 4 approved on 07/10/25

The Avery Berkel X-Pro 100 single or multi-interval instruments as 'bench' style instruments which are similar to the pattern but in which the customer and vendor displays are incorporated within the main instrument housing (Figure 4).

The X-Pro 100 instruments may be in any capacity listed for the X-Pro 400 (the pattern and variants 1 & 2).

6. Description of Variant 5 approved on 07/10/25

The Avery Berkel X-Pro 300 single or multi-interval instruments which are similar to the pattern but without a customer display in which case instruments are either:

a) NOT FOR TRADING DIRECT WITH THE PUBLIC and instruments carry a notice to this effect; or

b) Used in a self-service arrangement which provides various methods of product look up, as well as providing tare, weight, unit price and price displays. A display of tare values (which may be stored against PLU items) is also provided.

Note 1: It is not required that access to the zero-setting facility be available to customers in a self-service arrangement. However, access to the zero-setting facility shall be available to staff of the particular store, and it is expected that measures will be in place to ensure that the zero condition of the instrument is checked regularly.

Note 2: When used in a self-service arrangement, all keys on the touch screen keyboard, other than the REZERO key, may be disabled or removed. The TARE key is not functional with this arrangement.

Note 3: The use of totalisation across instruments ('floating system') arrangement is not approved for use in a self-service arrangement.

TEST PROCEDURE No 6/4D/408

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

The instrument shall not be adjusted to anything other than as close as practical to zero error, even when these values are within the maximum permissible errors.

Maximum Permissible Errors

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

Tests

For multi-interval and 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.

FIGURE 6/4D/408 – 1

Avery Berkel Model X-Pro 400 Weighing Instrument (Pattern and Variants 1 & 2)

FIGURE 6/4D/408 – 2

Typical Sealing of X-Pro Series Instruments with Destructible Adhesive Label (Sealing provision)

FIGURE 6/4D/408 – 3

Avery Berkel Model X-Pro 200 Weighing Instrument (Variant 3)

FIGURE 6/4D/387 – 4

Avery Berkel Model X-Pro 100 Weighing Instrument (Variant 4)

FIGURE 6/4D/387 – 5

Avery Berkel Model X-Pro 300 Weighing Instrument (Variant 5)

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