

Member State of OIML  
United Kingdom of Great Britain  
and Northern Ireland

OIML Certificate No  
R76/2006-GB1-15.02  
Revision 2

## OIML CERTIFICATE OF CONFORMITY

Issuing authority: **NMO**  
Person responsible: **Mannie Panesar – Head of Technical Services**  
Applicant: **Avery Berkel  
Foundry Lane  
Smethwick  
West Midlands B66 2LP  
United Kingdom**  
Manufacturer: **The applicant**  
Identification of the certified pattern: **XS Series**

This certificate attests the conformity of the above-mentioned pattern (represented by the samples identified in the associated test report) with the requirements of the following Recommendation of the International Organisation of Legal Metrology (OIML):

**OIML R 76 - Edition 2006(E) for accuracy class: [III]**

This certificate relates only to the metrological and technical characteristics of the pattern of the instrument concerned, as covered by the relevant OIML International Recommendation.

This certificate does not bestow any form of legal international approval.

Important note: Apart from the mention of the certificates reference number and the name of the OIML Member State in which the certificate was issued, partial quotation of the certificate or of the associated test report is not permitted, though they may be reproduced in full.

This revision replaces previous versions of the certificate.

**Issue Date: 26 April 2017**



**G Stones**  
**Technical Manager**  
*For and on behalf of the Head of Technical Services*



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The conformity was established by testing and examination described in the associated Evaluation Report P01519 which includes 14 pages.

### **Characteristics of the instrument:**

#### Characteristics:

The Avery Berkel XS Non-Automatic Weighing Instrument is a mains-powered, Class III, price-computing, stand-alone instrument intended for direct sales to the public.

#### Main features:

The Avery Berkel XS weighing instrument comprises:

- Vendor's keyboard having 23 fixed keys and up to 59 programmable keys
- Vendor's backlit LCD display having up to four numeric fields, one alphanumeric field and several annunciators.
- Customer's backlit LCD display. The layout and legends are identical to the vendor's display.
- Integrated printer, using thermal print head.
- Two-piece plastic housing that contains the load cell and electronics.
- Stainless steel load receptor.
- Level indicator

Note: The keyboard and display configuration (type and location, as described in the Alternative section) may be freely changed by the user without the seals and verification marks having to be changed.

#### Devices:

- Initial zero-setting ( $\leq 20\%$  of Max)
- Semi-automatic zero-setting ( $\leq 4\%$  Max)
- Automatic zero-setting ( $\leq 4\%$  Max)
- Zero-tracking ( $\leq 4\%$  Max)
- Zero indicator
- Net indicator
- Semi-automatic subtractive tare balancing/weighing
- Preset tare
- Price computing
- Non-weighed items
- Totalisation
- Self-service mode of operation
- Price-labelling configuration, in which case printing below Min is not allowed

#### Interfaces:

- Ethernet (wired or R.F.(integral Wi-Fi) connectivity)
- USB
- Cash drawer

Load cell:

The load cell is an Avery T103, with  $E_{max}$  as follows:

Max = 6 kg	$E_{max} = 8$ kg
Max = 15 kg	$E_{max} = 19$ kg
Max = 30 kg	$E_{max} = 36$ kg

Technical data:

Power supply	24 VDC via mains adaptor (110-240 VAC, 50/60 Hz) Any CE-marked adaptor may be used
Maximum capacity	$6 \text{ kg} \leq \text{Max} \leq 30 \text{ kg}$
Scale interval	$e \geq 1 \text{ g}$
Minimum capacity	20e
Maximum number of scale intervals	$n \leq 6000$ for instruments with single interval $n_i \leq 3000$ per partial weighing range, with a maximum of two partial weighing ranges
Maximum Tare value	- Max
Maximum Preset Tare value	- Max (single interval) - $\text{Max}_1$ (dual interval)
Operating temperature range	- 10 °C to + 40 °C

Software:

The software version numbers for the instruments software are as shown on the "test report" printout which may be obtained by double pressing the 'test button' and shall be of the format as follows:

"Xs Series ABR30-000402 BOOT v4.x.x.x"  
"Xs Series ABR30-000403 APP v4.x.x.x"

The software is segregated into legally relevant and non-legally relevant modules, including:

- Software security features (checksums prevent invalid software from running when the application starts)
- Audit trail, which records legally relevant software updates, both traced and verified, and changes to device-specific parameters. The audit trail information is accessed by pressing the "Test" key followed by the "→0←" key, with no product selected. The complete audit log is then automatically printed.
- Receipt / ECR / totalisation operation

Fixed legally relevant software parts can only be loaded when breaking the seal (verified update), with changes being recorded in the audit log, and must match the following verification information (where 'x' covers minor software updates):

- Validation library                      ABR30-000407 v1.x.x.x

Legally relevant software parts that can be loaded without breaking the seal (traced update), with changes being recorded in the audit log, and must match the following verification information (where 'x' covers minor software updates):

- Legally relevant library              v1.x.x.x
- Application                              ABR30-000403 v4.x.x.x

Sealing:

Components that may not be dismantled or adjusted by the user shall be secured by a suitable mark placed over the service switch access/housing securing screw located under the load receptor.

Alternatives:

Having the XS with tower mounted customer display.

Having the XS with tower mounted operator keyboard and double-sided display.

Having the XS connected to a remote customer self-serve keyboard, in which case the customer display may be disabled or removed.

Having the XS 500, utilising a hanging scale construction, with the following metrological characteristics:

Max 6/15 kg	or	Max 15 kg
Min 40 g	or	Min 100 g
e = 2/5 g	or	e = 5 g

Having alternative “boot” software part as follows:

- Xs Series ABR30-000402 BOOT v5.x.x.x

Having alternative “application” software part as follows:

- Xs Series ABR30-000403 APP v5.x.x.x

**CERTIFICATE HISTORY**

ISSUE NO.	DATE	DESCRIPTION
R76/2006-GB1-15.02	22 January 2015	Certificate first issued.
R76/2006-GB1-15.02 Revision 1	21 December 2016	Added alternative XS 500.
R76/2006-GB1-15.02 Revision 2	26 April 2017	Added alternative application and boot software versions v5.x.x.x