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United Kingdom of Great Britain
and Northern Ireland

OIML Certificate No R76/2006-GB1-15.04

OIML CERTIFICATE OF CONFORMITY

Issuing authority: National Measurement and Regulation Office

Person responsible: Paul Dixon – Director, Certification Services

Applicant: Avery Weigh-Tronix

Foundry Lane Smethwick

West Midlands B66 2LP

United Kingdom

Manufacturer: The applicant

Identification of the

certified pattern: ZP900 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.

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Issue Date: 20 July 2015 Reference No: TS1201/0124

G Stones

Technical Manager - Certification Services



0135

The conformity was established by testing and examination described in the associated Evaluation Report P01514 which includes 14 pages.

Characteristics of the instrument:

This family of non-automatic weighing Instruments, which may also be used as postal scales, utilises the digital bases designated the Avery Weigh-Tronix BSQ Series, connected to an indicator and optional remote displays to form Class III, mains, DC or battery-powered, self-indicating non-automatic weighing instruments.

The instruments may be used for direct sales to the public.

Digital bases:

Two-part cast aluminium painted enclosure Load bridge Stainless steel weighing pan Digital Load cell assembly type LP FPGA QDT Adjustable feet Level indicator

The designation of the base follows the following format: "Prefix-XXYY-CCC", with

- Model Number Prefix:
 BSQ = Standard Base
- Digits XX Nominal weigh pan depth in inches
 Digits YY Nominal weigh pan width in inches
- Digits CCC Capacity in kg

Indicator and remote display:

The digital base shall be connected to a ZP900 series indicator, and optionally a ZP900 series remote display to form a complete ZP900 instrument, the designation of which follows the following format: "ZP900-XXYY-CCC-XYZ", with

- Digits XX Nominal weigh pan depth in inches
- Digits YY Nominal weigh pan width in inches
- Digits CCC Maximum capacity of platform in kg
- Digit X Indicator / Remote Display Enclosure material
 P = Plastic (ABS) Enclosure
- Digit Y Indicator / Remote Display Mounting method

B = Base Mount (integral to the scale)

D = Desk Mount Indicator

H = Hybrid (Indicator and remote display coupled together on a pole)

P = Pole Mount Indicator

R = Remote display – pole mount

T = Table Top Remote display

Digit Z – Indicator / Remote Display Type

1 = IBN - Black background with green digit

The indicator comprises a PCB, LCD display and 6 operational keys, housed in an enclosure. The remote display is of identical construction, but without the operational keys. Power to the indicator and remote display is sourced from the digital base.

Devices:

The instruments have the following devices:

- Initial Zero setting (≤ 4% Max)
- Semi-automatic zero setting (≤ 4% Max)
- Zero tracking (≤ 4% Max)
- Single or multi-range (maximum of 3 partial ranges)
- Determination of stability of equilibrium
- Indication of stability of equilibrium
- Checking of display
- Gross, Zero, Motion, Ethernet, Battery indicators
- Range in use indicators (multi-range variant)

Technical data:

Туре	BSQ-0912-035	BSQ-1214-035	BSQ-1214-080
Max	5 kg ≤		5 kg ≤
	Maximum capacity		Maximum capacity
	≤ 35 kg		≤ 80 kg
e =	≥ ′	1 g	≥ 2 g
Min	20 e (5 e for determination of postal tariffs)		
Maximum	n ≤ 10,000 for instruments with single interval		
number of	ni ≤ 10,000 for instruments with multi-range operation, per		
scale intervals	weighing range, with a maximum of three weighing ranges		
Maximum Tare	-100% Max		
Power supply	110-240 VAC (via PSU) or		
-	12-36 VDC		
Temperature	-10 to +40 °C		
range			
Load cell Emax	38	kg	110kg

Interfaces:

The instruments may be fitted with the following protected interfaces:

BSQ Digital base:

- USB Virtual Serial
- RS232

Indicator:

- Ethernet
- USB Device
- RS232

Remote display:

- RS232

The instruments may be connected to any compatible Electronic Point of Sale device (EPOS).

The weighing system may be connected to CE-marked PC terminals used for determining postal tariffs. The Min value in this case may be shown as 5 e and the display overlays will include the legend "Minimum Load For Postal Use 5 e" or similar wording.

Software:

The software for the digital base is designated AWT30-500191 Version 1.x.x.x (where x.x.x refers to the identification of non-legally relevant software, which may be modified by the manufacturer).

The software for the indicator is designated AWT30-500196 Version 1.x.x.x, (where x.x.x refers to the identification of non-legally relevant software, which may be modified by the manufacturer).

Sealing measures:

A jumper located on the ZP900 indicator main board prevents all access to the legally relevant parameters.

Alternatively, software sealing may be used: two non-editable counters, designated CALIB and CONFIG, are incremented each time the calibration and legally relevant parameters respectively are modified, with access to these parameters being password-protected. The counters' values and designations must be written on a tamper-evident label on or near the rating plate.

Hardware sealing: access to the load cell and electronics is prevented by a destructible paper seal placed across the joint between the upper and lower casting, bearing a securing mark. If hardware sealing is used for the indicator, its housing and the interconnecting cable between the BSQ base and the indicator must additionally be sealed.

Alternatives:

Having a reduced temperature range of +5°C to +40°C, with the instrument bearing the following legend, grouped with the other markings: Temperature range: +5°C / 40°C

Having the instrument built into a self-service postal system. The location of the display (integral or remote) may vary, provided that the primary indications are clearly and simultaneously visible to the user/customer.

CERTIFICATE HISTORY

ISSUE NO.	DATE	DESCRIPTION
R76/2006-GB1-15.04	20 July 2015	Certificate first issued.
-	-	No revisions have been issued.