

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

OIML Certificate No  
R76/2006-GB1-17.10

## OIML CERTIFICATE OF CONFORMITY

Issuing authority: **NMO**  
Person responsible: **Mannie Panesar – Head of Technical Services**  
Applicant: **Avery Weigh-Tronix  
Foundry lane  
Smethwick  
West Midlands B66 2LP  
United Kingdom**  
Manufacturer: **The applicant**  
Identification of the certified pattern: **ZK840**

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 R76 - 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: 17 November 2017**



**M Bokota**  
**Technical Manager**  
*For and on behalf of the Head of Technical Services*

NMO | Stanton Avenue | Teddington | TW11 0JZ | United Kingdom  
Tel +44 (0) 20 8943 7272 | Fax +44 (0) 20 8943 7270 | Web [www.gov.uk/government/organisations/regulatory-delivery](http://www.gov.uk/government/organisations/regulatory-delivery)  
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The conformity was established by testing and examinations described in the associated Evaluation Report P02151 which includes 14 pages.

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

#### Characteristics:

The indicating device is designated the Avery Weigh-Tronix ZK840. The indicator is self-indicating, mains, DC or battery-powered, and is designed to be used as part of a Class III, Non-Automatic Weighing Instrument. The load receptor(s) may be BSQ digital bases and / or conventional platforms fitted with load cells.

#### Construction:

The indicator consists of a plastic (ABS) enclosure that may either be mounted to a BSQ base or alternatively desk / wall mounted using an optional bracket.

An ISTN LCD display is provided, capable of displaying both positive (black background with green digits) and negative (green background with black digits) images.

The ZK840 indicator features 6 operational keys, with additional “soft” keys provided via the touchscreen display.

#### Devices:

The indicator has the following devices:

- Single or multi-range (maximum of 3 partial ranges)
- Semi-automatic zero setting ( $\leq 4\%$  Max)
- Zero tracking ( $\leq 4\%$  Max)
- Semi-automatic subtractive tare weighing
- Pre-set tare
- Recall of Gross indication when tare is active
- Determination of stability of equilibrium
- Indication of stability of equilibrium
- Checking of display
- Printing
- Gravity compensation
- Real time clock
- Command via external device (PC)
- Counting
- Accumulation
- Checkweighing
- Target Weighing
- Percentage weighing
- Grading
- Pick Lists
- Kitting
- Density Formulation
- % Recipe
- Gross, Net, Tare, Preset Tare, Print, Zero, Motion, Over/Under weight, %PCWT, and Battery indicators.
- Connection to additional load receptors, with identification of active load receptor(s)
- PLUs
- Piece Weight selection
- Extended indicating

Technical data:

Power supply	110-240 VAC (via PSU), or 12-36 VDC, or external battery pack	
Load Cell Input Variants	BSQ Digital Base	5V EXC analogue load cell interface option card
Maximum number of scale intervals	10,000	6,000
Maximum Tare	-100% Max	
Maximum Preset Tare	-100% Max (single interval) - Max <sub>1</sub> (multi-interval/range)	
Load cell excitation voltage	n/a	5 VDC
Minimum load cell impedance	n/a	58.33 Ω
Maximum load cell impedance	n/a	1,100 Ω
Minimum input voltage per scale interval	n/a	0.8 μV
Measuring range minimum voltage	n/a	0 mV
Measuring range maximum voltage	n/a	15 mV
Fraction of maximum permissible error	n/a	P <sub>ind</sub> = 0.5
Operating temperature range	+5 °C to +40 °C	
Load cell connection	BSQ Digital Base interface	4 or 6-core with braided outer screen, flexible PVC overall Jacket
	n/a	Maximum length (6-wire) = 196 m/mm <sup>2</sup> (limited to 30 m)

Interfaces:

- BSQ digital base interface
- 3 x logic level inputs
- 3 x open collector outputs
- 2 x RS232 serial ports
- 10/100 Ethernet
- USB Device
- USB Host

Optional Interface & PCBs:

- (i) Internal Wireless LAN card, providing an 802.11b/g wireless link
- (ii) Up to two load cell interface boards, with 5V Excitation (to allow the connection of 1 or 2 platforms, maximum 6 load cells).

Software:

The software is designated AWT30-500208 version 2.x.x.x (where x.x.x refers to the identification of non-legally relevant software, which may be modified by the manufacturer).

The calibration and legally relevant parameters are protected via physical (sealed jumper located on main board) or software means (password and incrementing counters).

**CERTIFICATE HISTORY**

<b>ISSUE NO.</b>	<b>DATE</b>	<b>DESCRIPTION</b>
R76/2006-GB1-17.10	17 November 2017	Certificate first issued.
-	-	No revisions have been issued.