

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

OIML Certificate No  
R76/2006-GB1-17.02

## 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: **ZK830**

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.

**Issue Date: 19 January 2017**



**Grégory Glas**  
**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 P01948 which includes 18 pages.

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

#### Characteristics:

The indicating device is designated the Avery Weigh-Tronix ZK830. 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.

#### 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 IBN LCD display is provided, having a black background with green digits.

The ZK830 indicator features 6 operational keys, with an optional add-on ZK830-PK0 keypad providing an additional 15 operational keys, including a numeric keypad and LED indicators.

#### Devices:

The indicator has the following devices:

- 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
- Gross, Net, Tare, Print, Zero, Motion, Over/Under weight, %PCWT, and Battery indicators.

The ZK830-PK0 keypad option provides the following additional devices:

- Connection to an additional load receptor, with load receptor indicator
- Preset tare indicator
- PLUs
- Piece Weight selection
- Extended indicating

Technical data:

|  |  |  |
|--|--|--|
| Power supply                             | 110-240 VAC (via PSU),<br>or 12-36 VDC,<br>or external battery pack      |  |
| Load Cell Input Variants                 | BSQ Digital Base   | 5V EXC analogue load<br>cell interface option<br>card                    |
| Maximum number of scale intervals        | 10,000   | 6,000  |
| Maximum Tare                             | -100% Max  |  |
| Maximum Preset Tare                      | -100% Max (single interval)<br>- 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<br>interface  | 4 or 6-core with braided<br>outer screen, flexible<br>PVC overall Jacket |
|  | n/a  | Maximum length<br>(6-wire) = 196 m/mm <sup>2</sup><br>(limited to 30 m)  |

Interfaces:

- BSQ digital base interface
- Keypad option interface
- 3 x logic level inputs
- 3 x open collector outputs
- 2 x RS232 serial ports
- 10/100 Ethernet
- USB Virtual Serial Port

Optional Interface & PCBs:

- (i) Internal Wireless LAN card, providing an 802.11b/g wireless link
- (ii) Load cell interface board, with 5V Excitation (to allow the connection of a second platform, maximum 6 load cells).

Software:

The software is designated AWT30-500195 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 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-GB1-17.02 | 19 January 2017 | Certificate first issued.      |
| -                  | -               | No revisions have been issued. |