

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

OIML Certificate No
R76/2006-GB1-12.04

OIML CERTIFICATE OF CONFORMITY

Issuing authority: **National Measurement Office**

Person responsible: **Paul Dixon – Product Certification Manager**

Applicant: **Avery Weigh-Tronix Ltd
Foundry Lane
Smethwick
West Midlands B66 2LP
United Kingdom**

Manufacturer: **The applicant**

Identification of the certified pattern: **ZM301, ZM303, ZQ375 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] and [IIII]

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: 27 April 2012
Reference No: TS1201/0041


Signatory: P R Dixon

The conformity was established by tests described in the associated pattern evaluation report P00835 which includes 13 pages.

Characteristics of the instrument:

Characteristics:

The family of indicating devices is designated the Avery Weigh-Tronix ZM301 / ZM303 / ZQ375 Series. The indicators are self-indicating, mains, DC or battery-powered, and are designed to be used as part of a Class III or IIII, non-automatic weighing instrument.

Construction:

The indicator construction is dependent on the model number, the designation follows the following format: "Prefix-XYZ", with

- Model Number Prefix:
ZM301 or ZM303 = Standard Indicator
ZQ375 = Check-weighing Indicator
- First Digit X – Enclosure material
S = Stainless enclosure
A=Alloy Enclosure
- Second Digit Y – Mounting orientation
D = Desktop
P = Panel Mount
- Third Digit Z – Display Type
1 = IBN – Black background with Green Digits
2 = TN – Green Background with Black Digits

The ZM301 features 6 operational keys, whereas the ZM303 overlay is fitted with 24 operational keys, including a numeric keypad. The ZQ375 is specifically designed for Check Weighing applications, and is fitted with 10 operational keys.

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
- PLUs
- Alibi storage device
- Gravity compensation
- Checkweighing
- Real time clock
- Counting
- Weigh labelling
- Command via external device (PC)
- Accumulation
- Target Weighing
- Batching

- Peak Hold
- Simple checkweighing (Sim375), ZQ375 models only
- Mid-level checkweighing (Mid375), ZQ375 models only
- Advanced checkweighing (Adv375), ZQ375 models only
- Percentage checkweighing (Per375), ZQ375 models only
- Grading checkweighing (Grad375), ZQ375 models only
- Gross, Net, Tare, Preset tare, Print, Zero, Motion, Accumulation, Over/Under weight and Network indicators

Technical data:

Power supply	<ul style="list-style-type: none"> - ZM301-ADz*, ZM303-ADz*, ZM301-SPz*, ZM303-SPz: 12-36V DC via mains adaptor or external battery pack. - ZM301-SDz*, ZM303-SDz*, ZQ375-SD1: 110-240V AC(50/60Hz) * where z = display type
Maximum number of scale intervals	6000
Maximum Tare	-100% Max
Maximum Preset Tare	-100% Max
Load cell excitation voltage	5 VDC
Minimum load cell impedance	58.33 Ω
Maximum load cell impedance	1100 Ω
Minimum input voltage per scale interval	0.8 μ V
Measuring range minimum voltage	0 mV
Measuring range maximum voltage	15 mV
Fraction of maximum permissible error	$P_{ind} = 0.5$
Operating temperature range	-10 °C to +40 °C
Load cell connection	4 or 6-core with braided outer screen, flexible PVC overall Jacket. 0.5 mm ² per core Maximum length (6-wire) = 30m (60 m/mm ²)

Interfaces:

- Load cell 4-wire or 6-wire shielded connection
- 3 x logic level inputs
- 3 x open collector outputs
- 2 x RS232 serial ports
- 10/100 Ethernet
- USB Host

Optional Interface & PCBs:

- Analogue output card, providing 0-10 VDC and 4-20mA outputs
- Current loop card, providing 4-20mA loop and RS485 / RS422
- Internal Wireless LAN card, providing an 802.11b/g wireless link

Optional Modules (ZQ375 only):

- ZQ-BAT Battery pack
- ZQ-OPTO Interface box (with or without beacon assembly)

Software:

The software is designated AWT30-500161 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 (jumper located on main board) or software means (password and incrementing counters).

Certificate History

ISSUE NO.	DATE	DESCRIPTION
R76/2006-GB1-12.04	27 April 2012	Certificate first issued
-	-	No revisions have been issued.