



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

**OIML Certificate No.**  
**R76/2006-A-GB1-19.04**  
**Revision 1**

**OIML CERTIFICATE ISSUED UNDER SCHEME A**

OIML Issuing Authority **NMO**  
**Stanton Avenue**  
**Teddington**  
**TW11 0JZ**  
**United Kingdom**

Person responsible: **Mannie Panesar – Head of Technical Services**

Applicant **Shanghai Yousheng Weighing Apparatus Co.,Ltd**  
**Building 26, No.99 Chunguang Road**  
**Xinzhuang Industrial Zone**  
**Minhang, Shanghai**  
**PR China**

Manufacturer **The applicant**

Identification of the certified type **TM Series**  
*(the detailed characteristics are defined in the Descriptive Annex)*

This OIML Certificate attests the conformity of the above identified type (represented by the sample(s) identified in the OIML type evaluation report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

**OIML R 76-1, Edition: 2006**

For accuracy class: III

Issue date: 24 February 2020

**The OIML Issuing Authority**

**Grégory Glas**  
**Lead Technical Manager**  
*For and on behalf of the Head of Technical Services*

This OIML Certificate relates only to metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML Recommendation identified above.

This OIML Certificate does not bestow any form of legal international approval.

The conformity was established by the results of tests and examinations provided in the associated OIML type evaluation report:

No. P02456 dated 24 February 2020 that includes 16 pages.

The technical documentation relating to the identified type is contained in documentation file:

No. P02456-D dated 24 February 2020.

#### **OIML Certificate History**

<b>Revision No.</b>	<b>Date</b>	<b>Description of the modification</b>
Revision 0	22 January 2019	Certificate first issued.
Revision 1	24 February 2020	Authorised alternative of DC external main adaptor and pole-mounted double-sided LCD dot-matrix display. Alternative configuration with load receptor mounting embedded inside the enclosure.

This revision replaces previous versions of the certificate.

*Important note:*

*Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate is issued, partial quotation of the Certificate and of the associated OIML type evaluation report(s) is not permitted, although either may be reproduced in full.*

## DESCRIPTIVE ANNEX

### Characteristics of the instrument:

This family of instruments is designated the TM Series and comprises different models. The instruments are Class III, mains-powered, self-indicating, price-computing, single-interval, barcode printing and scanning, non-automatic weighing instruments. The instruments are designed for direct sales to the public.

### Main features:

- Plastic construction
- Operator's keypad
- Stainless steel load receptor
- Front and rear LCD displays or Pole-mounted double-sided LCD display
- Level indicator under the load receptor
- Integrated printer

### Devices:

- Initial zero setting device ( $\leq 20\%$  of Max)
- Automatic zero setting device ( $\leq 4\%$  of Max)
- Semi-automatic zero setting device ( $\leq 4\%$  of Max)
- Zero tracking device ( $\leq 4\%$  of Max)
- Zero indicator
- Net indicator
- Stable weight indicator
- Semi-automatic subtractive tare weighing device
- Preset tare
- Gravity compensation
- Price-computing (weighed and non-weighed items)
- Hold function for weighing unstable samples
- Check weighing
- Piece counting
- Totalisation (including non-weighed items)
- PLU
- Fixed weight labelling
- Price labelling
- Multi-vendor operation
- Calibration / set-up mode via sealed internal switch
- Printing
- Barcode printing and scanning
- Operator manual discount or percentage discount
- Additional management functions

### Load cell:

The load cell fitted in the instrument is a Qidong Youming Weighing Apparatus Co., Ltd load cell, model ZET-EC,  $E_{\max}$  as described in technical data below.

Interfaces:

- USB
- RS232
- RJ11 (Cash drawer)
- RJ45 (Ethernet)
- WiFi

Model variants and designation

Model	Type	Front display type	Back display type
TM-xAa	Standard desktop scale	L4	L4
TM-xAb		L4+ 1	L4
TM-xA	Pole-mounted scale	L4	L4
TM-xA1		L4+1	L4
TM-xA2		L4+1	L4+ 1

Note: x is the capacity of the scale, e.g. 6 or 15 or 30 for 6 kg, 15 kg and 30 kg respectively.

Technical data:

The instruments operate on a 200 to 240 Vac (50/60 Hz) mains power supply.

The temperature range for the instruments is -10 °C / +40 °C.

Max	6 kg	15 kg	30 kg
Min	40 g	100 g	200 g
e =	2 g	5 g	10 g
T <sub>≤</sub> (kg)	-2.400 kg	-6.000 kg	-12.00 kg
Load cell E <sub>max</sub>	10 kg	20 kg	40 kg

Software:

The software identification shall be as UA8xx V3.x, where:

xx = 00 to 99 to represent different language, e.g. 00 for English.

x can be three or four digits and it is the sub version number reflecting non-legally relevant changes.

During normal power up, the information of V3.x will be displayed. For the full software version number, press "F-Prog" during power up.

Access to the legally relevant parameters and download of software is only possible by accessing the calibration switch or short-circuit J2 on the main board. This is prevented by sealing the enclosure (Section Sealing).

Sealing:

Access to the load cell, electronics and calibration switch is prevented by sealing the enclosure using a tamper-evident method.

Alternatives:

Having the instruments manufactured by the following companies:

Qidong Youming Weighing Apparatus Co.,Ltd  
Group 14, Yinxi, Yinyang Town  
Qidong City, Jiangsu Province  
PR China

Having the alternative instrument models operate on an 18 to 21 VDC external main adaptor.

Having the alternative instrument models configured with pole-mounted double-sided LCD dot-matrix display. The model names are designated as below.

Model	Type	Front display type	Back display type
TM-xA3	Pole-mounted scale	D4	D4
TM-xA4		D4+1	D4
TM-xA5		D4+1	D4+1

Note: x is the capacity of the scale, e.g. 6 or 15 or 30 for 6 kg, 15 kg.

Having the alternative instrument models configured with load receptor mounting embedded inside the enclosure. The model names are designated as below.

Model	Type	Front display type	Back display type
TM-xB	Pole-mounted scale	L4	L4
TM-xB1		L4+1	L4
TM-xB2		L4+1	L4+1
TM-xB3		D4	D4
TM-xB4		D4+1	D4
TM-xB5		D4+1	D4+1

Note: x is the capacity of the scale, e.g. 6 or 15 or 30 for 6 kg, 15 kg and 30 kg.