

(UK2870)



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United Kingdom of Great Britain and Northern Ireland

Certificate of EC type-approval of a measuring instrument

Number: UK 2870

issued by the Secretary of State for Business, Innovation & Skills
Notified Body Number 0126

In accordance with the requirements of the Non-automatic Weighing Instruments Regulations 2000 (SI 2000/3236) which implement, in the United Kingdom, Council Directive 2009/23/EC (formerly 90/384/EEC), this certificate of EC type-approval has been issued to:

**Shanghai Yaohua Weighing System Co Ltd
No. 4059, Shangnan Road
Pudong District
CN - 200124
Shanghai
P.R. CHINA**

in respect of a family of single-interval, Class III, non-automatic weighing instruments designated the XK3190-A12 or XK3190-A12E.

$n \leq 3000$ with single-interval indication

The necessary data (principal characteristics, alterations, securing, functioning, etc) for identification purposes and conditions (when applicable) are set out in the descriptive annex to this certificate.

Signatory: P R Dixon
for Chief Executive
National Weights & Measures Laboratory
(Part of the National Measurement Office)
Department for Business, Innovation & Skills
Stanton Avenue
Teddington
Middlesex, TW11 0JZ
United Kingdom

Date: 22 September 2009
Valid Until: 21 September 2019
Reference No: T1128/0226

Descriptive Annex

1 NAME AND TYPE OF INSTRUMENT

This instrument utilises either the digital indicating device designated the XK3190-A12 or XK3190-A12E indicator, connected to a load receptor to form a Class III, self-indicating, non-automatic weighing instrument.

2 DESCRIPTION

2.1 Devices

The XK3190-A12 or XK3190-A12E indicators are as described in Test Certificate GB-1334.

2.2 Load receptor

The indicators can be connected to a load receptor to form a complete weighing instrument.

2.3 Load cell

Any compatible load cell(s) may be used providing the following conditions are met:

- There is a respective OIML Certificate of Conformity (R60) or a test certificate (EN45501:1992) issued for the load cell by a Notified Body responsible for type examination under Directive 2009/23/EC.
- The certificate contains the load cell types and the necessary load cell data required for the manufacturer's declaration of compatibility of modules (WELMEC 2, Issue 5, May 2009, No 11), and any particular installation requirements. A load cell marked NH is allowed only if humidity testing to EN45501:1992 has been conducted on this load cell.
- The compatibility of the load cells and indicator is established by the manufacturer by means of the compatibility of modules calculation, contained in the above WELMEC 2 document, at the time of verification or declaration of EC conformity of type.
- The load cell transmission must conform to one of the examples shown in the WELMEC Guide 2.4, "Guide for Load cells".

3 TECHNICAL DATA

3.1 Technical data for the indicators is given in Test Certificate GB-1334.

4 INTERFACES AND PERIPHERAL DEVICES

4.1 Interfaces

The instruments may have the following interface type:

- 4 or 6 wire shielded load cell connection.
- RS232 connection.

4.2 Peripheral devices

The following peripheral devices may be connected to the interfaces provided:

- Peripheral devices that have been issued with a test certificate by a Notified Body responsible for type approval under Directive 2009/23/EC; or
- Peripheral devices without a test certificate under the following conditions:
 - It bears the CE marking for conformity to the EMC Directive 89/336/EEC.
 - It is not capable of transmitting any data or instruction into the weighing instrument, other than to release a printout, checking for correct data transmission or validation.
 - It prints weighing results and other data as received from the weighing instrument without any modification or further processing.
 - Indicator must prevent transmission of unstable weights when connected to a printer.
 - It complies with the applicable requirements of EN45501:1992, i.e. 4.2, 4.4, 4.6 and 4.7.

A printing device may print additional information such as date or number to identify the printed weighing result(s) or sets of weighing results.

5 APPROVAL CONDITIONS

This certificate is issued subject to the following conditions:

5.1 Legends and inscriptions

5.1.1 The instrument bears the following legends on or near the display:

Max
Min
e =

5.1.2 The instrument shall bear the following legends:

Class III
CE marking
Green M
Serial number
Manufacturer's mark or name
Certificate number
Temperature range: 0 °C to + 40 °C

The markings and inscriptions shall fulfil the requirements of Paragraph 1 of Annex IV of the Directive 2009/23/EC.

6 SECURING AND VERIFICATION MARKS

6.1 The data plate is mounted underneath the indicator, so that it is easily accessible and clearly visible. The CE mark shall be impossible to remove without damaging it. The data plate shall be impossible to remove without it being destroyed.

6.2 The calibration switch is secured using a wire and seal, passing through one drilled screw and loop underneath.

6.3 Components that may not be dismantled or adjusted by the user shall be secured by a wire and seal solution or by a suitable mark placed over the securing screws of the housing. The securing mark may be either:

- a mark of the manufacturer and/or manufacturer's representative, or
- an official mark of a verification officer.

6.4 Verification marks, and the CE-marking, are located on, or adjacent to, the data plate.

7 ALTERNATIVES

There are currently no authorised alternatives.

8 ILLUSTRATIONS

Figure 1 XK3190-A12 Indicator
Figure 2 XK3190-A12E Indicator

9 CERTIFICATE HISTORY

ISSUE NO.	DATE	DESCRIPTION
UK 2870	22 September 2009	Type approval first issued.
-	-	No revisions have been issued.



Figure 1 XK3190-A12 Indicator



Figure 2 XK3190-A12E Indicator