



National  
Measurement &  
Regulation Office



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

OIML Certificate No  
R76/2006-GB1-16.04

## OIML CERTIFICATE OF CONFORMITY

Issuing authority: **National Measurement and Regulation Office**

Person responsible: **Paul Dixon – Technical Services Director**

Applicant: **Charder Electronic Co Ltd  
103 Guozhong Road Address  
Dah Li Dist.  
Taichung City 412  
Taiwan**

Manufacturer: **The applicant**

Identification of the  
certified pattern: **MS-6110**

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: **24 February 2016**

Reference No: **TS1201/0129**

**P R Dixon**  
**Technical Services Director**



0135

The conformity was established by testing and examination described in the associated Evaluation Report P01576 which includes 14 pages.

**Characteristics of the instrument:**

The MS-6110 is a self-indicating, non-automatic weighing instrument for weighing persons. The instrument shall not be used for direct sales to the public.

Max = 200 kg, Min = 4 kg, e = 200 g, n = 1000

Max = 160 kg, Min = 4 kg, e = 200 g, n = 800

Main features:

- LCD display fitted into load receptor: 5 digits, with Zero, Net, Weight lock, Bluetooth and Hold indicators. (Figure 2)
- Four buttons - 2 x On/Off, Zero/Tare and Hold/BMI buttons. (The orientation of the display depends on which On/ Off button is pressed.)
- Aluminium base enclosure containing the load cell and electronics.
- Plastic load receptor.
- Level indicator next to the display.
- Four adjustable feet for levelling.
- Operating temperature range: 5 °C to 35 °C

Devices:

The instruments have the following devices:

- Initial zero setting device ( $\leq 20\%$  of Max)
- Combined semi-automatic zero setting device ( $\leq 2\%$  of Max) and semi-automatic subtractive tare balancing device
- Zero tracking device ( $\leq 4\%$  of Max)
- Zero indicator
- Net indicator
- Hold facility.
- Hold indicator
- Gravity compensation
- Weight lock
- BMI (Body Mass Index) function

Technical data:

The instrument operates by a remote power supply (12VDC), or directly with 4 x 1.5v batteries. Any compatible CE-marked mains adaptor may be used.

The temperature range for the instruments is +5 °C / +35 °C.

Max	160 kg	200 kg
Min	4 kg	4 kg
e =	200 g	200 g
T = -	0 kg or 160 kg	200 kg

Load cell

The instrument is fitted with four load cells type AL-8180,  $E_{\max} = 150$  kg, manufactured by Chartek.

Interfaces:

The instruments may be fitted with the following protected interfaces:

- Bluetooth

Software:

The software is designated P-1.xx, with xx reflecting non-legally relevant changes. This information is displayed at power up.

Access to the legally relevant parameters and download of software is only possible by accessing the test pins located through an access hole on the underside of the instrument.

Alternatively, the gravity compensation device may be accessed by means of a password. Each time this is accessed the counter increments by one. To display the gravity compensation counter, press HOLD/BMI key for 6 seconds.

Sealing measures:

Access to the electronics, load cell and software is prevented by sealing stickers that are destroyed when removed.

The sealings must bear an official mark, which may be either:

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

When applicable, the value of the gravity compensation counter must be written on a tamper-evident label on or near the rating plate.

**CERTIFICATE HISTORY**

<b>ISSUE NO.</b>	<b>DATE</b>	<b>DESCRIPTION</b>
R76/2006-GB1-16.04	24 February 2016	Certificate first issued.
-	-	No revisions have been issued.