



National
Measurement &
Regulation Office



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

OIML Certificate No
R76/2006-GB1-15.06

OIML CERTIFICATE OF CONFORMITY

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

Person responsible: **Paul Dixon – Director, Certification Services**

Applicant: **Ian Fellows Ltd
3D/E Centurion Way
Crusader Park
Warminster
Wiltshire
BA12 8BT
United Kingdom**

Manufacturer: **The applicant**

Identification of the
certified pattern: **Checkmaster**

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: **22 July 2015**
Reference No: **TS1201/0126**

G Stones
Technical Manager - Certification Services



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The NMRO is an Executive Agency of the Department for Business Innovation and Skills

The conformity was established by testing and examination described in the associated Evaluation Report P01540 which includes 14 pages.

Characteristics of the instrument:

The instrument utilises the Checkmaster digital indicating device connected to a weighing platform to form a single-interval, Class III or IIII, non-automatic weighing instrument.

The instrument is not intended to be used for direct sales to the public.

Construction:

- Stainless steel enclosure
- LCD display (Figure 2)
- Operator keypad with numerical, navigation and function keys
- Lightbar

Devices:

- Initial zero setting device on power up ($\leq 20\%$ Max)
- Semi-automatic zero setting ($\leq 4\%$ Max)
- Zero tracking ($\leq 4\%$ Max)
- Automatic zero setting ($\leq 4\%$ Max)
- Semi-automatic subtractive tare balancing ($T \leq -$ Max)
- Preset tare
- Gross/Net indication
- Zero-indicator
- Indication of stable equilibrium
- Net indicator
- Extended indication ($e/10$)

Technical data:

Power supply	100-240 VAC, 50/60 Hz 12-24 VDC
Maximum number of scale intervals	10,000 (Class III) 1,000 (Class IIII)
Maximum Tare / Preset Tare value	- Max
Load cell excitation voltage	5 VDC
Minimum load cell impedance	43 Ω
Maximum load cell impedance	1100 Ω
Minimum input voltage per verification scale interval	0.5 μ V
Measuring range minimum voltage	0 mV
Measuring range maximum voltage	20 mV
Fraction of maximum permissible error	$P_i = 0.5$
Operating temperature range	- 10 °C to + 40 °C
Load cell cable (from indicator to load cell junction box) - Maximum length	30 m (6-wire configuration)

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) issued for the load cell.
- The certificate contains the load cell types and the necessary load cell data required for the manufacturer's declaration of compatibility of modules, and any particular installation requirements. A load cell marked NH is allowed only if humidity testing to R76 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 at the time of verification.
- The load cell transmission conforms to a standard type.

Interfaces:

- Load cell
- RS232 x 2
- PIO x 9
- Wi-Fi

Software:

The software is held in firmware on the circuit board, and has the identification number MC8_xxx, with xxx reflecting non-legally relevant changes.

A non-editable counter, designated TAN (traceable access number), increments when legally relevant parameters are changed.

Download of software requires a command that increments the TAN counter.

The software version number and TAN counter are displayed at power-up.

Sealing measures:

Access to the load cell connection and electronics is prevented by sealing the enclosure using either a wire and seal or a tamper evident label and securing mark. The securing mark may be either:

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

The value of the TAN counter shall be written on a tamper-evident label on or near the rating plate.

Markings:

Max (near the display)
Min (near the display)
e = (near the display)
Accuracy class
CE marking
Green M
Serial number
Scale interval d
Manufacturer's mark or name
Certificate number
Tare = (if ≠ - Max)

CERTIFICATE HISTORY

ISSUE NO.	DATE	DESCRIPTION
R76/2006-GB1-15.06	DD22 July 2015	Certificate first issued.
-	-	No revisions have been issued.