



National
Measurement &
Regulation Office

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

OIML Certificate No
R134/2006-GB1-12.02
Revision 1

OIML CERTIFICATE OF CONFORMITY

Issuing authority: **National Measurement and Regulation Office**
Person responsible: **Paul Dixon – Director, Certification Services**
Applicant: **Dini Argeo S.r.l.**
Via della Fisica 20
41042 Spezzano di Fiorano
Modena
Italy

Manufacturer: **The applicant**

Identification of the
certified pattern: **3590E-AF09**

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 134 - Edition 2006(E) for accuracy class: ≥ 2

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.

This revision replaces previous versions of the certificate.

Issue Date: **27 April 2015**
Reference No: **T1138/0015**

G Stones
Technical Manager - Certification Services
For and on behalf of the Chief Executive



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The conformity was established by testing and examinations described in the associated Evaluation Report P00251/R134 which includes 14 pages.

CHARACTERISTICS OF THE INSTRUMENT:

| | |
|-----------------------------|------------------------------------|
| Accuracy classes | 2, 5, 10 |
| Maximum number of axles | ≤ 20 |
| Maximum capacity | ≤ 60,000 kg |
| Scale interval (d) | ≥ 5 kg |
| Minimum capacity | ≥ 400 kg |
| Number of scale intervals | ≤ 3000 |
| Maximum speed | ≤ 5 km/hr |
| Direction of travel | Dual direction |
| Compensating axle groups | Yes (Pneumatic & Steel leaf) |
| Operating temperature range | - 10 °C / + 40 °C |
| Power supply | 12 V DC 100-240 V AC (50/60 Hz) |
| Load cells | Compatible OIML R60 |

PLATFORM TYPES:

| Platform Model | Maximum capacity of single platform (kg) | Dimensions (mm) |
|---|--|-----------------|
| WWSD – Portable system | 20,000 | 900 x 500 |
| WWSE – Portable system | 12,500 | 700 x 450 |
| WWSF – Portable system | 30,000 | 900 x 700 |
| RWS – Permanently fixed system Drawing 1303F90 | 25,000 | 3000 x 720 |
| RWS – Permanently fixed system Drawing 1303F91 | 25,000 | 3000 x 720 |

The 3590E-AF09 instrument is used for dynamic axle weighing of road vehicles in motion and can be configured by using one or two WWS platforms fixed temporarily to a concrete base or it can be configured to use the RWS fixed platforms embedded into the ground. The weighing system shall be installed to manufacturing guidelines in a controlled weighing area where vehicle speed is controlled, and shall adhere to the installation requirements of OIML R134-1:2006 (E) or any later versions. The weighing system shall not be mounted in or on a normal road surface.

INDICATOR TYPES:

This instrument utilises the following digital indicating devices designated the 3590-E, CPWE, DFW and DFWK06.

The above named indicators have the following features:

- ABS plastic, stainless steel or aluminium enclosures
- LCD or LED display
- Functions keys
- Connections and ports located at the back

TECHNICAL CHARACTERISTICS FOR THE INDICATORS:

| | |
|---|-------------------------|
| Maximum number of scale intervals | 10000 |
| Load cell excitation voltage | 5 V DC |
| Minimum load cell impedance | 20 Ω |
| Maximum load cell impedance | 10 k Ω |
| Minimum input voltage per verification scale interval | 0.3 μ V/div |
| Measuring range minimum voltage | 3 mV |
| Measuring range maximum voltage | 30 mV |
| Fraction of maximum permissible error | 0.5 |
| Operating temperature range | -10 / + 40 $^{\circ}$ C |
| Load cell connection | 4 or 6 wire |
| Load cell cable length (junction box to indicator) | 50 m |

INTERFACES:

The instrument may have the following interface type:

- 4 or 6-wire load cell connection
- DC voltage input
- RS-232
- RS-485
- Control inputs/outputs
- USB
- Ethernet
- Bluetooth
- RF (radio frequency)
- WiFi

SEALS:

The calibration and setup parameters can only be accessed via the sealed switch located on the main board.

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.

CERTIFICATE HISTORY

| ISSUE NO. | DATE | DESCRIPTION |
|------------------------------|-------------------|---|
| R134/2006-GB1-12.02 | 21 September 2012 | Certificate first issued. |
| R134/2006-GB1-12.02 Rev 1 | 27 April 2014 | Alternative RWS platform construction added to the Platform type section. |