

Non-automatic weighing instruments

A non-automatic weighing instrument (NAWI) is a weighing instrument that requires the intervention of an operator during the weighing process, for example to deposit on or remove from the load receptor the load to be measured and also to obtain the result.

NAWIs that are used for an Article 1(2)(a) application (List A) must satisfy the essential requirements of European directive [2009/23/EC](#), as amended, and implemented into UK legislation under the non-automatic weighing instruments regulations 2000 ([S.I. 2000 No. 3236](#)).

The most common route for ensuring that the essential requirements of the directive are met is through the application of the European harmonised standard EN 45501. If the weighing instrument complies with EN 45501 then it will satisfy the essential requirements (Annex I).

NMO is the notified body in the UK for issuing European type approval certificates (TAC) under this directive. A TAC can be granted for all electronic and most mechanical non-automatic weighing instruments and is valid throughout the whole of Europe. NMO typically approves instruments within 4 - 6 weeks from receipt of all supporting documentation and the equipment for test.

To reduce the amount of examination and testing needed to approve a NAWI, NMO can test modules of a NAWI separately and issue individual test certificates (TC). These TCs can then be quoted in TACs, rather than examining and testing the entire NAWI. This method is known as the modular approach. TCs can be issued for modules such as indicators, load cells and point of sale devices, as well as for peripheral devices such as computers and printers.

For countries outside of Europe, the NAWI or module can be approved in accordance with the relevant OIML recommendation ([R60](#) for load cells and [R76](#) for NAWIs and other modules). NMO is now an issuing participant under the [OIML mutual acceptance arrangements](#) (MAAs) for OIML R60 and OIML R76.

An OIML certificate of conformity and test report will be issued which can be used to gain approval in countries who are signatories under the MAA.

If you are unsure if your instrument will satisfy the requirements for certification, NMO offers a pre-assessment service which you can use prior to submitting an application for certification.

[Apply online for pre-assessment](#)

[Apply online for product certification](#)

[Apply online for quality management conformity assessment certification](#)

or for further information on the certification of:

- Non-automatic weighing instruments, please contact [Grégory Glas](#)
- Indicators, Point of Sale systems and Load cells, please contact [Gary Mapp](#)

Legislation

The [Non-Automatic Weighing Instruments](#) Regulations 2000
(S.I. 2000 No. 3236)

as amended by

The Non-Automatic Weighing Instruments [\(Amendment\) Regulations](#) 2008
(SI 2008/738)

Guidance

For organisations that are required to comply with weights and measures law for non-automatic weighing instruments guidance information is available on the NMO web site.

- [Non-automatic weighing instrument](#) guidance

Guidance documents are also provided on the [WELMEC](#) **European Cooperation in Legal Metrology** web site