

## ABB EQ MID Electricity Meters



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### Guidance

#### MID approved electricity meters

Approval process for electricity meters under the Measuring Instruments Directive (MID 2004/22/EC).

#### Background

The Measuring Instruments Directive (MID) is a European directive (2004/22/EC) that harmonises the requirements of 10 different measuring instrument types, including active electrical energy meters. MID approved instruments will have passed specific conformity assessment procedures and have MID markings which allow the instruments to be used in any EU member state. The aim of the directive is to create a single market in measuring instruments for the benefit of manufacturers and, ultimately, consumers across Europe.

#### MID approval process

Under the MID, electricity meters are approved by notified bodies, designated by member states. Manufacturers can obtain approvals from any notified body in any EU member states.

A list of notified bodies (<http://ec.europa.eu/enterprise/newapproach/nando/>), together with the instruments they have been designated to approve, is available on-line.

There are a number of different conformity assessment options available for MID approval and manufacturers are free to choose between these. For both gas and electricity meters the options are:

B+D (ie type examination and quality assurance of the production process)

B+F (ie type examination and product verification)

H1 (full quality assurance plus design examination)

Further information can be found on the European Commission website.

(<http://ec.europa.eu/enterprise/newapproach/nando/index.cfm?fuseaction=directive.main>).

#### MID electricity meter certification

Unlike meters approved under UK national legislation, certification is not recognised as a separate process under the MID. MID electricity meters are either approved and certified (Annex B+D, Annex B+F or Annex H1) or they are not. MID electricity meters that have only Annex B (ie type approval) are not approved for either primary (ie supplier-consumer) or secondary (ie landlord-tenant) billing applications.

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## **MID markings**

There is no statutory list of MID approved gas meters or electricity meters (ie the equivalent of Schedule 4) although the National Measurement Office (NMO) publish approval certificates issued by notified bodies in the UK.

MID approved gas and electricity meters can be identified by their specific markings, as required under the directive. These consist of the CE marking, the MID marking which is made up of the letter 'M' and then the year of manufacture (for example a meter manufactured in 2011 would have the following MID marking M11) and a four-digit code representing the notified body that approved and verified the meter. If your meter does not display these markings, it will not be MID approved.

## **The regulations**

In the UK, the MID is implemented by the regulations relating to different instrument categories. The relevant legislations for MID electricity meters are:

the Measuring Instruments (Active Electrical Energy Meters) Regulations

Electricity meters that are put into use in accordance with these regulations are 'deemed' to be of an approved pattern or construction and installed in an approved manner. Such meters are also 'deemed' to be stamped .

The regulations came fully into force on 30 October 2006 and since this date all new designs of electricity meters that are within the scope of the directive must meet the essential requirements of the directive.

Meters approved under UK national legislation prior to October 2006, and that are in-service prior to October 2016, can continue in-service for as long as they meet the requirements under Electricity Act 1989, but any meters newly installed after October 2016 must be MID approved.

## **Scope of MID**

The MID is applicable to instruments for domestic, commercial and light industrial use although these terms are not defined.

***Article issued from Gov.uk source with details edited for Electricity meters***

*National Measurement Office (<https://www.gov.uk/government/organisations/national-measurement-office>)  
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