

European Measuring Instrument Directive (MID)

Important Information Regarding the Selection of Energy Meters

What is Mid?

Since 30th October 2006 a new European Directive has been in force that applies to measuring instruments, including gas and electricity meters where measurements are used as the basis to bill energy consumers.

This directive is known as MID (Measuring Instrument Directive). In Great Britain it replaces the meter approval process previously undertaken by OFGEM.

The principle aim of the Directive is to create a single market for measuring instruments across Europe. Until this Directive came into force each country in the European Union had its own arrangements for dealing with energy meter requirements when used for billing purposes. This meant that most often a meter design approved in one country would have to be re tested and approved in another, before it was allowed to be used. This was very expensive and so the European Union decided to harmonize standards so that meters were tested to the same standard throughout Europe.

This means that once a meter has been approved it can be sold throughout the EU without re testing in each country.

It should be noted that whilst all new designs of meters must be approved under MID, there is a transition period under the Directive that, until late 2016, allows meters approved under the pre-MID arrangements to be manufactured and installed.

Examples of when a MID approved meter must be used

In Great Britain a MID or OFGEM approved meter must be used in the following circumstances:-

- When a landlord wants to use a meter to measure the energy consumption of apartments in his building, and send the tenants a bill for the energy they have used.
- When a shopping centre owner wants to use a meter to measure the energy consumption of stores within his shopping centre, and bill them for the energy they have used.
- When a camping or caravan site owner wants to use a meter to measure the consumption of its customers and bill them for the energy that they have used.

The meter installer must also ensure that the meter used is appropriate for the expected load and installation conditions.

Legal Requirements

The information on this page is based on our own interpretation of the MID directive. Clearly the law can only be interpreted by the courts. In case of doubt you, the customer, should seek your own independent legal advice.

Most common types of approval for energy meters

MID Module B - (Type Examination)

This is the assessment procedure whereby an independent notified body examines the technical design of a measuring instrument and ensures and declares that the technical design meets the appropriate requirements of this Directive. With MID B only, the energy meter can not be used for billing purposes.

MID Module D - (Declaration of Conformity to Type Based on Quality Assurance of the Production Process)

This is when a meter has received a Module B type examination approval and then the manufacturers production process is audited by an external notified body. When this is approved the meter will obtain MID Module D. The factory is then certified to calibrate its own meters. A meter with both MID B + MID D can be used for billing purposes.

MID Module F - (Declaration of Conformity to Type Based on Product Verification)

This is when a meter has received a Module B type examination approval and a meter is manufactured in accordance with the approval. Each meter is then examined by an external notified body and, if compliant, will be verified and approved. A meter with MID B + MID F can be used for billing purposes.

MID H1 - (Declaration of Conformity Based on Full Quality Assurance plus Design Examination)

This is where the manufacturer obtains a full quality system certification of its energy meter design and production facility by a notified body. A meter with MID H1 can be used for billing purposes.

Summary

For an energy meter to be used for billing purposes the meter must have either of the following combinations of approval:-

Modules B and D – Type examination plus declaration of conformity to type based on quality assurance of the production process.

Modules B and F – Type examination plus declaration of conformity to type based on product verification.

Module H1 – Declaration of conformity based on full quality assurance plus design examination.

Rayleigh Instruments meters and MID

Within our range we have currently three meters that are MID approved. These are as follows:-

Model	Approval	Page (Section 01)
Conto D4-Pt MID	MID B + F	8
PRO1D	MID B + D	9
PRO75D	MID B + D	9
PRO75D MODBUS	MID B + D	-
PRO1250D	MID B + D	-