

# Watt-hour

## NMi saves you energy!

In addition to metrology regulations like MID + MI003, end users require compliance with internationally accepted IEC and EN standards as well as OIML recommendations. In the specific field of watt-hour meters and ripple control receivers, NMi can help you to reduce the trade barriers and simplify your type approval process.

### Fast-track

NMi offers you quick turnaround times. Within six weeks you have your equipment tested and certified. In this way your product will be on the market in no time. If you want to have your meter even faster on the market, you can select for our fast-track service. With this unique service we perform all tests within three weeks. So you will have your product back on the market in the fastest possible time!

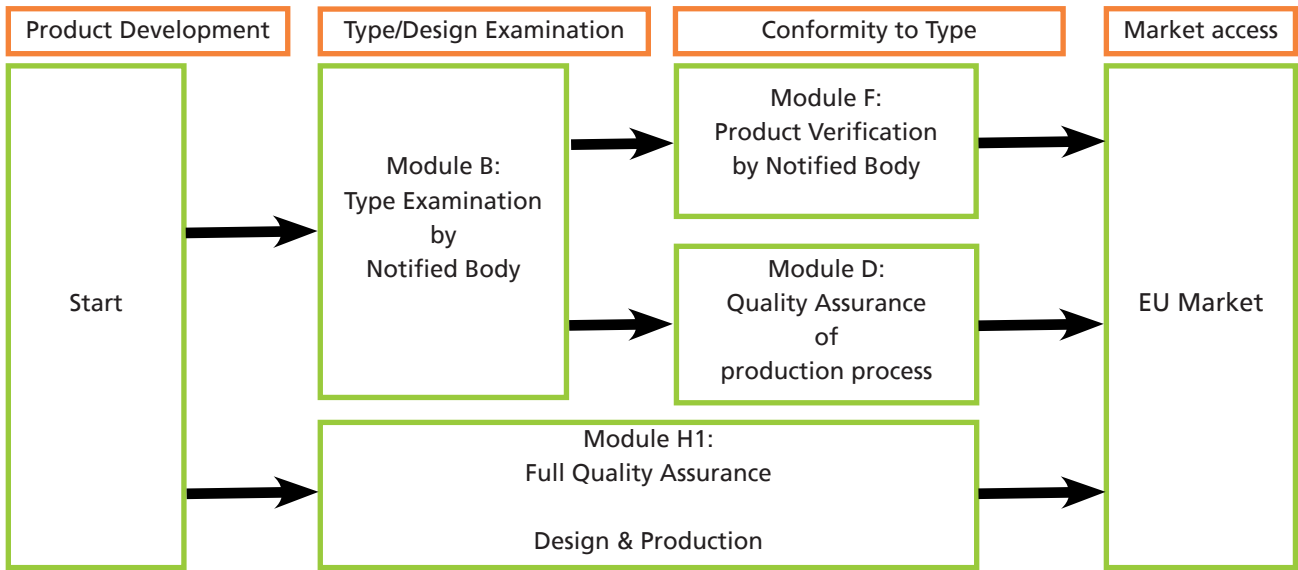


### What is best for your meter?

Successful testing results in an IEC or EN test report containing all test results and an EC Type Examination certificate. These documents will save you energy in acquiring market access anywhere. An overview of our possibilities is listed in the tables below.

		Global standards	European standards
Electricity meters	Electromechanical electricity meters A, B, C	IEC 62052 - 11 + IEC 62053 - 11	EN 50470 - 1 + EN 50470 - 2
	Static electricity meters class 1 & 2 / A, B, C	IEC 62052 - 11 + IEC 62053 - 21	EN 50470 - 1 + EN 50470 - 3
	Static electricity meters class 0,2s & 0,5s	IEC 62052 - 11 + IEC 62053 - 22	
	Reactive energy	IEC 62052 - 11 + IEC 62053 - 23	
	Software	OIML D31	Welmec guide 7.2
Tarrif & load control	Ripple control receiver	IEC 62052 - 21 + IEC 62054 - 11	
	Time switches	IEC 62052 - 21 + IEC 62054 - 21	
	Statistical testing	IEC 62058 - 11, - 21 & - 31	MID module F

## Possible routes to conformity with MID



### Transparency in our services: clarity in advance!

NMi always informs you about the project steps in advance. We are happy to work, with prior agreement, on investments, test programs and time schedules. Before starting tests, we can issue a draft Type Approval Certificate that is based on your documentation. This means that you already know what the certificate will look like if your instrument complies with the requirements.

### NMi thinks ahead

In order to achieve a minimum time to market, it is vital that your design already complies with the legal requirements in the target countries. NMi can assist you at this stage, thus avoiding costly modifications to your design during the type approval process.



### STEEC: Standard Type Examination & Evaluation Certificates

NMi uses STEEC as a method to provide structure in your approval documents. This method gives you a clear view on the consequences of a product modification. STEEC defines three levels:

- **Essential Parts:**  
If an essential part has to be modified, revision of your certificate is needed as these modifications have an impact on the metrological aspects of your product.
- **Conditional Parts:**  
The conditions under which this part can be used or attached are mentioned in your certificate. Changes to this condition could lead to small revisions of your certificate.
- **Non-Essential Parts:**  
Modifications in non-essential parts have no consequences for your certificates. You are free to modify these parts. The modification has no effect on the metrology aspects of the product.

### What NMi offers you

In the specific field of watt-hour meters and ripple control receivers, NMi offers you the following services:

- MID Type Examination
- IEC and EN test reports
- Testing versus IEC & EN standards
- Type Approval Management
- STEEC
- System Certification
- ISO 9001
- Training
- Consultancy

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