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| GENERAL INFORMATION | |
| **Applicant** *(manufacturer)* | |
| Name |  |
| Contact person(s) |  |
| Address |  |
| Place |  |
| Country |  |
| Telephone number |  |
| Email address |  |
| **Production location** *(only if different from manufacturer)* | |
| Name |  |
| Address |  |
| Place |  |
| Country |  |

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| PRODUCT SPECIFICATION | | | |
| Type designation (type name) |  | | |
| Operation principle  (for example: electromagnetic, turbine, etc.) |  | | |
| Sensor cylindrical measuring tube | Reduced bore  Full bore | | |
| Orientation of the instrument | Horizontal  Vertical | | |
| Maximum admissible pressure |  | | |
| Required straight length | x DN upstream and       x DN downstream | | |
| Pressure loss |  | | |
| Reverse flow | Meters designed to measure reverse flow  Meters designed to not measure reverse flow  Meters which prevent reverse flow | | |
| Power supply (if applicable) **[[1]](#footnote-1)** |  | Min. [volt] | Max. [volt] |
| AC powered |  |  |
| DC powered |  |  |
| Battery (replaceable) |  |  |
| Battery (non-replaceable) |  |  |
| Connection indicator device (if applicable) **[[2]](#footnote-2)** | Compact version  (solid connection between sensor and indicator)  Separate version   (long cable between sensor and indicator) | | |
| **Remarks:**  Please send besides the completed in application form, some pictures, drawings, manual or product folder of the water meter for better understanding of the meter. | | | |

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| Communication (if applicable)  Type of communication | | | | | To be approved yes / no |
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| Classification | Options | Description | | | |
| Accuracy | Accuracy class 1 | Note: MID 2014/32/EU requires only Acc. Class 2 | | | |
| Accuracy class 2 |
| Temperature | T30 | mAT = 0,1 °C | and | MAT = 30 °C | |
| T50 | mAT = 0,1 °C | and | MAT = 50 °C | |
| T70 **[[3]](#footnote-3)** | mAT = 0,1 °C | and | MAT = 70 °C | |
| T90 **3** | mAT = 0,1 °C | and | MAT = 90 °C | |
| T130 **3** | mAT = 0,1 °C | and | MAT = 130 °C | |
| T180 **3** | mAT = 0,1 °C | and | MAT = 180 °C | |
| T30/70 **3** | mAT = 30 °C | and | MAT = 70 °C | |
| T30/90 **3** | mAT = 30 °C | and | MAT = 90 °C | |
| T30/130 **3** | mAT = 30 °C | and | MAT = 130 °C | |
| T30/180 **3** | mAT = 30 °C | and | MAT = 180 °C | |
| Environmental  (for electronics) | Class B | for fixed meters installed in a building | | | |
| Class O / C **[[4]](#footnote-4)** | for fixed meters installed outdoors | | | |
| Class M / I **4** | for mobile meters | | | |
| Electromagnetic  (for electronics) | Class E1 | for residential, commercial and light industrial | | | |
| Class E2 | for industrial | | | |

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| Software download | |
| Is loading of software possible or desired  after putting the measuring instrument into use,  without breaking the sealing? | Yes (WELMEC 7.2 Extension D is applicable) |
| No |

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| Complete family of meter for approval | | | |
| DN sizes [mm] | Permanent flow rate *Q3* [m3/h] | Ratio *Q3/Q1* | Resolution [m3] [[5]](#footnote-5) |
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| **Note:**  The values for *Q3* and ratio *Q3/Q1* must be according to OIML R49 and/or ISO 4064 and the ratio *Q3/Q1* shall be at least 40 or bigger. Sending an attached file with a table with this information is also sufficient. | | | |

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| TEST SERVICES | |  |
| OIML R49 Edition 2013 (E) |  | |
| ISO 4064 Edition 2014 (E) *(Supersedes the EN 14154)* |  | |
| Measuring Instrument Directive (MID) 2014/32/EU, Annex B |  | |
| Software evaluation according to WELMEC guide 7.2  *(Required for electronic water meters)* |  | |
| CERTIFICATION SERVICES | |  |
| OIML R49 test report |  | |
| OIML R49 Certificate (Scheme A) |  | |
| ISO 4064 test report |  | |
| WELMEC 7.2 software evaluation test report |  | |
| EU-type examination certificate (MID directive), Annex B |  | |
| SYSTEM CERTIFICATION SERVICES | | |
| If you want to put meters on the market in the European Union, you also need to able to perform a conformity assessment according to module D, F or H1 (see MID 2014/32/EC for an explanation). NMi also provides this service. For optimal preparation of the audit it is adviced to perform a training and have a pre-audit first. | | |
| Training | yes  no | |
| Pre-audit | yes  no | |
| Audit | yes  no | |

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| IEC 62443 Security Assessment and Certification | |
| IEC 62443 covers all Operational Technology (process automation, field instruments, and the associated network equipment) aspects playing a role in Cyber Security. Depending on which particular aspect needs evaluation, a suitable set of requirements is available. These range from design of complete systems, to quality assurance procedures on patch management. The IEC 62443 provides independently verifiable criteria to all types of stakeholders in Cyber Security. | |
| Security assessment based on the IEC 62443 (and WELMEC 7.2). | yes  no |

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| UKCA service | |
| UK Declaration of Conformity (service expected available as of Q3 2021) | yes  no |

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| Other requests |
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| MARKET INFORMATION | |
| When are your samples available? |  |
| Do you have a specific deadline? |  |
| What are your targeted markets? |  |

1. Indicate the minimum (min.) and maximum (max.) supply voltage for approval. [↑](#footnote-ref-1)
2. Both compact and separate versions can be applicable. [↑](#footnote-ref-2)
3. For water temperature class T70 and higher, significant higher approval costs are applicable as most of the testing is required at 20 °C and 50 °C. [↑](#footnote-ref-3)
4. Previous given class definition according to OIML R49 Edition 2006 (E). [↑](#footnote-ref-4)
5. The required resolution shall fulfil OIML R49-1 edition 2013 paragraph 6.7.3.2.3. This can be calculated by:

   For accuracy class 1 required resolution ≤ 0,00375 \* Q3 / Ratio Q3/Q1

   For accuracy class 2 required resolution ≤ 0,00750 \* Q3 / Ratio Q3/Q1 [↑](#footnote-ref-5)