



## Environmental Product Declaration

### Product

|                                 |               |                           |
|---------------------------------|---------------|---------------------------|
| Type of equipment / Product No. | WFM501-E000H0 | Heat energy meter         |
|                                 | WFM502-E000H0 | Heat energy meter         |
|                                 | WFM503-J000H0 | Heat energy meter         |
|                                 | WFM541-G000H0 | Heat energy meter         |
|                                 | WFM542-G000H0 | Heat energy meter         |
|                                 | WFM543-L000H0 | Heat energy meter         |
|                                 | WFM542-C000H0 | Heat energy meter         |
|                                 | WFM541-G000H0 | Heat/cooling energy meter |
|                                 | WFM542-G000H0 | Heat/cooling energy meter |
|                                 | WFM543-L000H0 | Heat/cooling energy meter |
| Product line, Product range     | Metering      |                           |

### Process control

|                         |                 |     |
|-------------------------|-----------------|-----|
| Siemens Schweiz AG      |                 |     |
| Smart Infrastructure    |                 |     |
| Theilerstrasse 1a       |                 |     |
| CH-6300 Zug             |                 |     |
| Management System       | since           | by  |
| ISO 9001 (Quality)      | 22-July-1986    | SQS |
| ISO 14001 (Environment) | 20-October-1998 | SQS |
| OHSAS 18001 (OH&S)      | 01-January-2011 | SQS |

### Product use

|                            |                                                   |
|----------------------------|---------------------------------------------------|
| Typical energy consumption | 7.008kWh/a<br>during 6 years lifetime (770 mWh/a) |
| Maintenance                | Not necessary                                     |

### Risk of fire

|                              |                      |
|------------------------------|----------------------|
| Fire protection according to | EN 60950             |
| Fire load                    | variant *) see below |

### Packaging

|                              |                     |      |
|------------------------------|---------------------|------|
| 20-PAP Corrugated fibreboard | Folded bottom box   | 90g  |
| 22-PAP Paper                 | Instructions        | 227g |
| Notes on disposal            | One-way, recyclable |      |

### Materials

|                        |                      |
|------------------------|----------------------|
| Total weight of device | variant *) see below |
|------------------------|----------------------|

The total weight of a device may deviate from the total of the weights of all individual components due to rounding.

### Plastics

|                   |                      |         |
|-------------------|----------------------|---------|
| PPO               | End plate            | 17g     |
| ABS+PC            | Housing              | variant |
| ABS+PC            | Cover                | variant |
| Q Silicone rubber | Button               | 4g      |
| PP                | Protective caps (2x) | variant |
| PP                | Impeller             | variant |
| ABS+PC            | LCD-Frame            | 4g      |
| ABS+PC            | Sliding seal         | 2g      |

|        |                                         |                             |         |
|--------|-----------------------------------------|-----------------------------|---------|
| Metals | ABS+PC                                  | Wedge                       | variant |
|        | ABS+PC                                  | Bottom coil carrier         | variant |
|        | EPDM                                    | O rings + other parts       | variant |
|        | Q Silicone rubber                       | conductiv rubber            | variant |
|        | CuZnPb; no coating                      | Temperature sensor socket   | 5g      |
|        | CuZnPb; no coating                      | Screw connection half-shell | variant |
|        | CuZnPb; no coating                      | Washer                      |         |
| Others | CuZnPb; no coating                      | Screw connection half-shell | variant |
|        | CuZnPb; no coating                      | Housing                     | variant |
|        | CuZnPb; no coating                      | Threaded ring               | 45g     |
|        | Glass                                   | LCD > 100 cm²               | 8g      |
|        | Cu + PVC                                | Temperature sensor 1        | 20g     |
|        | Cu + PVC                                | Temperature sensor 2        | 35g     |
|        | CR AA, Li-MnO2                          | 1st battery / accumulator   | 22g     |
|        | Cu + PVC                                | Communication cable         | 9g      |
|        | 2K PUR                                  | Potting compound            | variant |
|        | Cu + PVC                                | Control cable 1             | variant |
|        | Cu + PVC                                | Control cable 2             | variant |
|        | PCBAs (Printed Circuit Board assembled) | PCB 1                       | variant |
|        | FR4; halogenated; solder SnAgCu         | PCB 2                       | 4g      |

**\*Variant parts list**

|                             | WFM501-E000H0 | WFM502-E000H0 | WFM503-J000H0 | WFM541-G000H0 | WFM542-G000H0 | WFM543-L000H0 | WFM542-C000H0 | WFM541-G000H0 | WFM542-G000H0 | WFM543-L000H0 |
|-----------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| [g]                         |               |               |               |               |               |               |               |               |               |               |
| Total weight of device      | 668           | 652           | 747           | 850           | 834           | 930           | 769           | 868           | 852           | 948           |
| Housing                     | 39            | 39            | 39            | 38            | 38            | 38            | 38            | 38            | 38            | 38            |
| Cover                       | 27            | 27            | 27            | 26            | 26            | 26            | 26            | 26            | 26            | 26            |
| Protective caps (2x)        | 3             | 3             | 3             |               |               |               |               |               |               |               |
| Impeller                    |               |               |               | 3             | 3             | 3             | 3             | 3             | 3             | 3             |
| Wedge                       |               |               |               | 2             | 2             | 2             | 2             | 2             | 2             | 2             |
| Bottom coil carrier         |               |               |               | 18            | 18            | 18            | 18            | 18            | 18            | 18            |
| O rings + other parts       | 3             | 3             | 3             |               |               |               |               |               |               |               |
| conductiv rubber            | 1             | 1             | 1             |               |               |               |               |               |               |               |
| Screw connection half-shell |               |               |               | 10            | 10            | 12            | 10            | 10            | 10            | 12            |
| Screw connection half-shell |               |               |               | 10            | 10            | 10            | 10            | 10            | 10            | 10            |
| Housing                     | 395           | 379           | 474           | 395           | 379           | 474           | 314           | 395           | 379           | 474           |
| Potting compound            |               |               |               |               |               |               |               | 18            | 18            | 18            |
| Control cable 1             |               |               |               | 33            | 33            | 33            | 33            | 33            | 33            | 33            |
| Control cable 2             |               |               |               | 89            | 89            | 89            | 89            | 89            | 89            | 89            |
| PCB 1                       | 20            | 20            | 20            | 33            | 33            | 33            | 33            | 33            | 33            | 33            |
| Fire load                   | [MJ] 5        | 5             | 5             | 7             | 7             | 7             | 7             | 7             | 7             | 7             |

**Disposal**



The symbol or any other national label indicates the product, its packaging and where applicable, any removed batteries may not be disposed as part of normal waste. Delete any personal data and dispose of the item via separate collection and recycling facilities in accordance with local and national regulations. For additional details, refer to [www.siemens.com/bt/disposal](http://www.siemens.com/bt/disposal).

For country-specific requirements regarding further disposal information:  
<http://www.siemens.com/download?A6V13734633>

## Comments

### EU-directive 2011/65/EU (RoHS)

The device does not contain substances in concentrations and applications banned under the EU RoHS Directive, including the 4 phthalates added to Annex II in 2015.

### Regulation (EC) No. 1907/2006 (REACH)

The device contains the following substances of the candidate list meeting the criteria laid down in Article 57 of Regulation (EC) 1907/2006 and identified in accordance with Article 59(1) of EU REACH concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) in concentrations above 0.1 % w/w. Contained REACH candidate substances, including those which will become known at a later date, are listed on the delivery note.

1,2-dimethoxyethane, also known as EGDME (EGDME), CAS-Nr.110-71-4; Lead, CAS-Nr.9002-86-2

(Status according to the creation date of this document.)

The device is low-halogen with exception of:

PCB (TBBA); PVC cable

## Environmental benefits

The heat meter is used for measuring heat energy. The combined measurement of heat and cold energy is possible. The main areas of application are in central heating systems where the heating energy is outputted individually to different consumers.

### Legal Disclaimer: This declaration is for information purpose only.

This Environmental Product Declaration does not constitute a guarantee of the composition of a product, neither does it guarantee that the product will retain a particular composition for a particular period.

Siemens Schweiz AG therefore does not assume liability for any error or for any consequences which may arise from the use of this information to the maximum extent under the law.

Please contact your local Siemens branch office to get further information on environmental aspects and disposal.