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Issue

Release

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Document History

| Version | Date | Comment | Editor |
| --- | --- | --- | --- |
| 1.0.0 | 2011-10-11 | Final Version | J. Feuchtmeier |
| 1.9.0 | 2013-08-09 | Adaptions to OMS-S V3 To be released as OMS-CT V2.0 | J. Feuchtmeier |
| 2.0.0 | 2013-10-16 | Adaption according Enquiry results document status changed to “Release” | J. Feuchtmeier |
| 2.0.1 | 2014-08-14 | Statement if base pressure for compensation is 1013,25 mbar for Gas meters required  Statement if base temperature for compensation is 15°C for Gas meters required | J. Feuchtmeier |
| 3.0.0 | 2014-10-06 | Adopting version number of the OMS-CT to be in line with the corresponding OMS-S version | J. Feuchtmeier |
| 4.0.0.0 | 2015-03-04 | Start version for OMS-CT V4 | J. Feuchtmeier |
| 4.0.0.1 | 2015-03-04 | Evaluation of data points according to the result of meeting #29 | J. Feuchtmeier |
| 4.0.0.2 | 2015-04-10 | Adding statement for parametrization of OMS certificated devices according Action#30-1 | J. Feuchtmeier |
| 4.0.0 | 2015-10-16 | Version for Enquiry | J. Feuchtmeier |
| 4.0.0 | 2015-12-16 | Version for Vote | J. Feuchtmeier |
| 4.0.0 | 2016-05-09 | Version for Release | J. Feuchtmeier |
| 4.0.1 | 2017-05-29 | Update to OMS-S V4.1.2 | J. Feuchtmeier |
| 4.0.2 | 2017-10-07 | - | J. Feuchtmeier |
| 4.0.3 | 2018-01-18 | Frequency deviation measurement according WG3 decision #54-2 | J. Feuchtmeier |
| 4.0.4 | 2019-09-26 | Support of PHY\_B (433 MHz) Editorial changes | J. Feuchtmeier A. Reissinger |
| 4.0.4 | 2019-12-22 | Version for Release | A. Reissinger |
| 4.0.5 | 2020-01-28 | Adaption of test report documents: no RTT&E report required, measurement report for frequency deviation | J. Feuchtmeier |
| 4.0.6 | 2020-03-06 | Extension of ManDec for Wired M-Bus | P. Leistner, A. Reissinger |
| 4.0.7 | 2020-03-23  and  2020-05-13 | Extension of parameters for Wired M-bus | P. Leistner, A. Reissinger |
| 4.0.8 | 2022-01-26 | Release Candidate | A. Reissinger |
| 4.0.9 | 2022-07-07 | Copyright remark added to front page  Release | A. Reissinger |
| 4.0.10 | 2022-08-17 | Use case declarations added | A. Reissinger |
| 4.0.11 | 2023-01-17 | Use case declarations changed  Release candidate | AG3, A. Reissinger |
| 4.0.12 | 2023-03-06  and  2023-03-21 | Consideration of review comments  Final editing in meeting #89  Release | AG3, A. Reissinger |
| 4.0.13 | 2023-05-16  and  2024-05-18 | MSB first byte order for encryption key  Reference update  Release candidate | Thomas Blank  Achim Reissinger |
| 4.0.14 | 2024-06-28  and  2024-07-04 | Consideration of review comments  Release | AG3, A. Reissinger |

References

The references used are listed in [OMS-CT1.GP]:

OMS Open Metering System Specification,   
Volume 2, Primary Communication, Issue 4.5.1 / 2022-12

OMS Open Metering System – Conformance Test Volume 1 – General Part; Issue 4.0.11 / 2024-07-04

Declaration

We

*Applicant name and address*

declare under our sole responsibility that the product(s) listed in Table 1 to which this declaration relates is/are in conformity with the requirements of the following standards respectively specifications

* EN13757-4:2019 (refer to [EN13757-4])
* EN13757-2:2018 (refer to [EN 13757-2])
* OMS-Specification [OMS-S2] (Version refer to Table 1)

Signed by:

Declaration of the Device under Test

The Table 1 shall be completed by the applicant according to .

Table 1: Declaration of manufacturer, product and configuration

| **Manufacturer Declaration** | **To be filled in by the applicant** |
| --- | --- |
| Name and address of manufacturer | Diehl Metering GmbH  Industriestraße 13  91522 Ansbach |
| OMS Information | |
| OMS Generation | 4 |
| OMS Device type1 | Basic meter |
| OMS Interface | T1 |
| Application protocol | M-Bus |
| Security Profile | Security Profile B |
| Encryption key (MSB first, see note in OMS-S2, 9.1 for byte order) | 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F 00 |
| Compact Load Profile | No |
| Product identification | |
| Product name | HYDRUS Q3 2,5 m³/h |
| Device type2 | 0x07; water |
| Extended Device type information3 | N/A |
| Serial number | 35968527 |
| Version | 0x25 |
| Product parameterisation | |
| Production is always OMS conform | Yes / no (if no please state how this is communicated) |
| Parameterisation after production | Yes / no (if yes, state how the user is informed about possible non OMS compliant devices) |
| Features for radio transmission | |
| Frequency band  (acc. to [OMS-S2], Annex O) | PHY\_A (868 MHz) |
| Transmission rate | 20 seconds |
| Installation datagrams | No |
| Static datagrams | No |
| Performance class | HT |
| Ambient temperature range | 0°C – 80°C |
| Type of antenna | Integrated |
| Initiation of the radio transmission | always on |
| Features for wired M-Bus | |
| Unit loads | 1 UL |
| Max. supported baudrate | 2400 baud |
| Number of logical M-Bus devices | 2 |
| Enhanced selection supported | Yes / No |
| Temporary logical disconnect  Parameters according to Table 2 created by the manufacturer (see example below). | Yes / No |
| Supported subcodes per logical device with statement about multi-datagrams support | Device 1:  Subcode 0 (multi-datagram yes)  Subcode 1 (multi-datagram yes)  Subcode F (multi-datagram no)  Device 2:  Subcode 0 (multi-datagram no) |
| Feature set device specific4 | |
| Parameterisation | Answer datagram 5 |
| Test mode | yes, device can simulate volume flow |
| Power supply | Battery |
| Expected lifetime | 12 years |
| Base pressure of 1013,25 mbar for pressure conversation used5 | Yes / No |
| Base temperature of 15°C for pressure conversation used6 | Yes / No |
| 1 Defines the class of DUT: basic meter, sophisticated meter, data concentrator  2 For the Device Types 04h or 0Ch it has to be stated if it is “district heating” or “sub metering”; for the Device Type 37h also the Device Type of the measurement device has to be stated (e.g. 37h (radio converter): 07h (water), 02h (electricity))  3 Relevant for Gas Meters only: defines the gas metering conditions: temperature converted, measurement conditions, base conditions  4 Optional Parameters, content device depended  5 Applicable for Gas meters (device type 03h) only  6 Applicable for Gas meters (device type 03h) only | |

Example for Temporary Logical Disconnect

Table 2: Example for communication budget

|  |  |
| --- | --- |
| **Parameters for communication budget** | **To be filled in by the applicant** |
| Communication budget1 | 250 bytes/minute |
| Regeneration time1 | 180 s |
| Communication depot1 | 66.000 bytes |
| 1 For minimum requirements see Table 3 | |

For a selection of the above given parameters only a range of values is permitted (see the following Table 3).

Example for Minimum Requirements

Table 3: Example for minimum requirements

|  |  |
| --- | --- |
| Minimum requirements for communication budget | **To be filled in by the applicant** |
| Communication budget | 50 bytes/minute  Alternative entry: Unlimited |
| Regeneration time | Maximum permitted value: 360 seconds |
| Communication depot | 30.000 bytes |

Declaration of Frequency Deviation

For devices with R&TTE/RED test report dated 18.10.2013 or earlier the manufacturer shall state the conformity with the requirements of the OMS-CT.

If the DUT applies for OMS Conformity Version 4.0 or earlier and the R&TTE/RED test report is dated after 18.10.2013 the manufacturer shall provide the measurement report with the conformity declaration.

If the DUT applies for OMS Conformity Version 4.1 or higher the manufacturer shall provide the measurement report with the conformity declaration.

Table 4: Testing of frequency deviation for different OMS Versions

|  |  |  |  |
| --- | --- | --- | --- |
| OMS Version | Date of R&TTE/RED test report | Declaration | To be filled in by the applicant |
| Up to 4.0 | 18.10.2013 or earlier | The manufacturer declares that the frequency deviation of the DUT is conform to the applicable requirements | YES/NO |
| Up to 4.0 | Later than 18.10.2013 | The manufacturer declares that the frequency deviation of the DUT is conform to the applicable requirements  The measurement report (“NameOfReport”) is attached | YES/NO  YES/NO |
| 4.1 or higher |  | The measurement report (“NameOfReport”) is attached | YES/NO |

Declaration of the Supported Data Points

This List contains all Data points which are conform to [OMS-S2], Annex A and are used to ensure interoperability.

The Table 5 should be completed by the manufacturer according to [OMS.CT1-GP].

Table 5: Declaration of OMS-conform Data points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | OBIS-code | Description | DIF/DIFE | VIF/VIFE |
| 01 | 8-0:1.0.0\*255 | Volume (V ), accumulated, total, current value | 0C | 12..13 |
| 02 | 8-0:1.2.0\*255 | Volume (V ), accumulated, total, set date value | 4C | 12..13 |
| 03 | 8-0:0.1.10\*255 | Local date at set date | 42 | 6C |
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The Manufacturer may also declare in Table 6 additional data points which are not conforming to [OMS-S2], Annex A. This declaration is optional.

Table 6: Declaration of Non-conform data points

|  |  |  |  |
| --- | --- | --- | --- |
| No | Description | DIF/DIFE | VIF/VIFE |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Declaration of Supported UseCases based on [OMS‑S2] Annex M

Table 7: Declaration of supported UseCases

|  |  |
| --- | --- |
| UseCase | To be filled in by the applicant |
| Supported UseCases | |
| OMS-UC-00 | Mandatory if at least 1 of the UseCases 02..06, UseCases 08..09 is supported by the DUT |
| OMS-UC-01 (BiDi not mandatory) | Mandatory if “Installation datagram” in Table 1 is set to “yes” otherwise it is not tested. |
| OMS-UC-02 | Yes/No |
| OMS-UC-03 | Yes/No |
| OMS-UC-03 switching type (applies only if OMS-UC-03 is used) | Direct/Manual |
| OMS-UC-03 manual switching (applies only if OMS-UC-03 manual switching is used) | Specification for the manual switching procedure including the OPEN\_TIMEOUT parameter provided by document *xyz* |
| OMS-UC-03 target time delay (applies only if OMS-UC-03 is used) | Definition of the “TargetTime Delay for ASP10” value |
| OMS-UC-04 | Yes/No |
| OMS-UC-05 | Yes/No |
| OMS-UC-06 | Yes/No |
| OMS-UC-07 (BiDi not mandatory) | Yes/No |
| OMS-UC-08 | Yes/No |
| Additional parameters | |
| Credit Handling: The DUT is prepared with 4000 available Credits | Yes/no (optional: state number of available credits) |
| Supported Communication sequences | Ein Bild, das Text, Screenshot, Schrift, Diagramm enthält.  Automatisch generierte Beschreibung |
| DUT support SND-UD | Mandatory |
| DUT support Seq\_SND-UD2 for all implemented OMS- UC | Yes/No |

Test Equipment and Documentation

Table 8: Test equipment and documentation

|  |  |
| --- | --- |
| Test equipment and documentation | To be filled in by the applicant |
| Test equipment | |
| Communication adapter | IZAR OH BT (optical transceiver) |
| Communication software | HYDRO-SET (configuration software) |
| Provided Documentation | |
| Test documentation | Description of communication and test commands |
| Test report for EN 300 220-1 essential requirements | No. 50445-081090-5 |
| Measurement report for frequency deviation |  |