



# **Open Metering System Conformance Test**

## **Manufacturer Declaration**

**Issue 4.0.9 / 2022-07-07**

**Release**

## 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

## Declaration

We

Diehl Metering GmbH  
Industriestraße 13  
91522 Ansbach

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

- EN13757-4:2013 (refer to [EN13757-4])
- EN13757-2:2018 (refer to [EN 13757-2])
- OMS-Specification [OMSS-Vol2] (Version refer to Table 1)

Signed by:

## Declaration of the Device under Test

The Table 1 shall be completed by the manufacturer according to [OMSCT-GEN].

<b>Name and address of manufacturer</b>	Diehl Metering GmbH Industriestraße 13 91522 Ansbach
<b>OMS Generation</b>	4
<b>OMS device Type<sup>1</sup></b>	Basic meter
<b>Product name</b>	HYDRUS Q3 2,5 m³/h
<b>Device type<sup>2</sup></b>	0x07; water
<b>Extended Device type information<sup>3</sup></b>	N/A
<b>Serial number</b>	35968527
<b>Version</b>	0x25
<b>Product Parametrization</b>	
<b>Production is always OMS conform</b>	Yes / no (if no please state how this is communicated)
<b>Parametrization after production</b>	Yes / no (if yes, state how the user is informed about possible non OMS compliant devices)
<b>Feature Set Standard OMS</b>	
<b>OMS interface</b>	T1
<b>Features for radio transmission</b>	
<b>Radio Band (acc. to [OMS-S2], Annex O)</b>	PHY_A (868 MHz)
<b>Application protocol</b>	M-Bus
<b>Security Profile</b>	Security Profile B
<b>Encryption key</b>	01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F 00
<b>Transmission rate</b>	20 seconds
<b>Installation datagram</b>	No
<b>Static datagram</b>	No
<b>Compact Load Profile</b>	No
<b>Performance class</b>	HT
<b>Ambient temperature range</b>	0°C – 80°C

<sup>1</sup> Defines the class of DUT: basic meter, sophisticated meter, data concentrator

<sup>2</sup> For the Device Types 04h or 0Ch it has to be stated if it is “district heating” or “submetering”; 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))

<sup>3</sup> Relevant for Gas Meters only: defines the gas metering conditions: temperature converted, measurement conditions, base conditions

<b>Type of antenna</b>	Integrated
<b>Initiation of the radio transmission</b>	always on
<b>Features for Wired M-Bus</b>	
<b>Unit loads</b>	1 UL
<b>Max. supported baudrate</b>	2400 baud
<b>Number of logical M-Bus devices</b>	1 (1 primary address, 1 secondary address)
<b>Enhanced selection supported</b>	Yes / No
<b>Temporary logical disconnect</b> <b>Parameters according to Table 2</b> <b>created by the manufacturer (see</b> <b>example below).</b>	Yes / No
<b>Feature Set Device Specific<sup>4</sup></b>	
<b>Parameterization</b>	Answer datagram 5
<b>Test mode</b>	yes, device can simulate volume flow
<b>Power supply</b>	Battery
<b>Expected lifetime</b>	12 years
<b>Base pressure of 1013,25 mbar for</b> <b>pressure conversation used<sup>5</sup></b>	Yes / No
<b>Base temperature of 15°C for</b> <b>pressure conversation used<sup>6</sup></b>	Yes / No

Table 1: Declaration of manufacturer, product and configuration

## Example for temporary logical disconnect

<b>Parameters for communication budget</b>	
<b>Communication budget<sup>7</sup></b>	250 bytes/minute
<b>Regeneration time<sup>7</sup></b>	180 s
<b>Communication depot<sup>7</sup></b>	66.000 bytes

5 Table 2: Example for communication budget

<sup>4</sup> Optional Parameters, content device depended<sup>5</sup> Applicable for Gas meters (device type 03h) only<sup>6</sup> Applicable for Gas meters (device type 03h) only<sup>7</sup> 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).

Minimum requirements for communication budget	
Communication budget	50 bytes/minute Alternative entry: Unlimited
Regeneration time	Maximum permitted value: 360 seconds
Communication depot	30.000 bytes

Table 3: Example for minimum requirements

## Declaration of Frequency deviation

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

- 5 If the DUT applies for OMS Conformity Version 4.0 or earlier and the RTTE/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.

OMS Version	Date of RTTE/RED test report	Declaration	Confirm
Upto 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
Upto 4.0	Later than 18.10.2013	The manufacturer declares that the frequency deviation of the DUT is conform to the applicable requirements	YES/NO
		The measurement report ("NameOfReport") is attached	YES/NO
4.1 or higher		The measurement report ("NameOfReport") is attached	YES/NO

Table 4: Testing of Frequency deviation for different OMS Versions

## Declaration of the supported data points

This List contains all Data points which are conform to [OMSS-Vol2] Annex A and are used to ensure interoperability.

The Table 5 should be completed by the manufacturer according to [OMSCT-GEN].

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

5 **Table 5: Declaration of OMS-conform Data points**

The Manufacture may also declare in Table 6 additional data points which are not conforming to [OMSS-Vol2] Annex A. This declaration is optional.

No	Description	DIF/DIFE	VIF/VIFE

**Table 6: Declaration of Non-conform data points**



## Test equipment and Documentation

<b>Test equipment</b>	
<b>Communication adapter</b>	IZAR OH BT (optical transceiver)
<b>Communication software</b>	HYDRO-SET (configuration software)
<b>Provided Documentation</b>	
<b>Test documentation</b>	Description of communication and test commands
<b>Test report for EN 300 220-1 essential requirements</b>	No. 50445-081090-5
<b>Measurement report for frequency deviation</b>	

Table 7: Test equipment and Documentation