

Bahnhofstrasse 28
CH-6304 Zug
Switzerland

Tel. +36 28 514 065
Fax +36 28 514 066
dlms@dlms.com

Certification No. 1847

This is to certify that the metering equipment identified as:

Type: LZQJ-XC (Version 267)

Mgmt. Logical Device Name: SAP = 1 is "454D483939392D323637" (EMH9999-267)

Manufactured by: EMH metering GmbH & Co. KG

has successfully passed the DLMS/COSEM Conformance test, under the following conditions:

- CTT version: CTT 3.0 standard edition, 64bits (108)
- Licensed to: 20161123_EMH_GmbH_Germany (23.11.2016)
- COSEM object definitions file version: Object_defs_v3.1_released_170313.dat
- Media identifier(s): Abstract, Electricity

Tests	Comm. profile & opening mode	Application contexts	Security features	Date and time	Test Result hash value
Test 1 RS485	HDLC, DIRECT_HDLC	SHORT_NAMES	—	21-JUL-2017 07:31:40	DEB1F576EC00B33F7AFA0BD6061D0456A 1DEDCC56F4E0D59D136F2D6424897936
Test 2 optical	HDLC, MODE_E	SHORT_NAMES	—	21-JUL-2017 07:02:37	18350CDC77B63BFB5FA4FFA88F7D38720 BDBE03462B7B02F921D6C2709C7CFE1
Test 3 current loop	HDLC, DIRECT_HDLC	SHORT_NAMES	—	21-JUL-2017 09:24:35	9AC8B63981C1C97B3F863C58A1DC5B422 C6266F226E70CA75EA1E840D9762299
Test 4 RS232	HDLC, DIRECT_HDLC	SHORT_NAMES	—	21-JUL-2017 08:07:52	D6DFB3D727EF4EB4606613B659980F2D0A 5645F014EA6D73B22C437C24A9A4E7

The authenticity of the test report(s) has been verified by the DLMS User Association and the metering equipment identified above is listed on its web site at: www.dlms.com.

With this, the manufacturer is entitled to display the DLMS/COSEM Compliant mark – shown below – on its product duly identified and on its product literature.



The test reports are filed by the DLMS UA. Copies are available from the manufacturer.

This Certificate is only valid for the functions successfully tested; see the Summary. The test has been executed on one specimen of the product, as identified by the Management Logical Device Name reported. Results may not be applicable for other test specimens.

Date: Zug, the 21th July 2017

Győző Kmethy
President

Certification No. 1847

Summary of features tested for Test 1

This section provides an overview of the features tested, aggregated over all logical devices and Application Associations in one test session. Full information is available in the Test Result.

```
*****
* Identification *
*****
```

```
Identification = {
  Manufacturer = "\EMH metering GmbH & Co. KG"
  FLAGid = "\EMH"
  Type = "\LZQJ-XC (Version 267)"
  IUTIsModule = FALSE
  SerialNr = "\9999-267"
}
```

```
*****
* Summary *
*****
```

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
HDLC	36	0	4	0	32	0
APPL	69	0	17	0	52	0
COSEM	3120	0	0	36	3084	0
SYMSEC		All	(No association with a ciphered context supporting the required services)			

Communication profile: HDLC

Application context names: SHORT_NAMES

Security mechanisms: NO_SECURITY, LOW_LEVEL_SECURITY

ACSE and xDLMS features: MULTIPLE_REFERENCES, READ, SELECTIVE_ACCESS
WRITE

Security features: (not collected)

Logical device(s) found:
(EMH000009999-267) SAP = 16 is "454D48303030303939392D323637"

SAP = 1 is "454D48393939392D323637" (EMH9999-267)

COSEM classes tested: 1,3,4,7(1),8,12(1),17,23(1)

COSEM classes found but not tested: (none)

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Summary of features tested for Test 2

This section provides an overview of the features tested, aggregated over all logical devices and Application Associations in one test session. Full information is available in the Test Result.

```
*****
* Identification *
*****
```

```
Identification = {
  Manufacturer = "\EMH metering GmbH & Co. KG"
  FLAGid = "\EMH"
  Type = "\LZQJ-XC (Version 267)"
  IUTIsModule = FALSE
  SerialNr = "\9999-267"
}
```

```
*****
* Summary *
*****
```

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC		All (MODE_E)				
APPL	69	0	17	0	52	0
COSEM	3120	0	0	36	3084	0
SYMSEC		All	(No association with a ciphered context supporting the required services)			

Communication profile: HDLC

Application context names: SHORT_NAMES

Security mechanisms: NO_SECURITY, LOW_LEVEL_SECURITY

ACSE and xDLMS features: MULTIPLE_REFERENCES, READ, SELECTIVE_ACCESS
WRITE

Security features: (not collected)

Logical device(s) found:
(EMH000009999-267) SAP = 16 is "454D48303030303939392D323637"

SAP = 1 is "454D48393939392D323637" (EMH9999-267)

COSEM classes tested: 1,3,4,7(1),8,12(1),17,23(1)

COSEM classes found but not tested: (none)

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Summary of features tested for Test 3

This section provides an overview of the features tested, aggregated over all logical devices and Application Associations in one test session. Full information is available in the Test Result.

```
*****
* Identification *
*****
```

```
Identification = {
  Manufacturer = "\EMH metering GmbH & Co. KG"
  FLAGid = "\EMH"
  Type = "\LZQJ-XC (Version 267)"
  IUTIsModule = FALSE
  SerialNr = "\9999-267"
}
```

```
*****
* Summary *
*****
```

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC	36	0	4	0	32	0
APPL	69	0	17	0	52	0
COSEM	3120	0	0	36	3084	0
SYMSEC		All	(No association with a ciphered context supporting the required services)			

Communication profile: HDLC

Application context names: SHORT_NAMES

Security mechanisms: NO_SECURITY,LOW_LEVEL_SECURITY

ACSE and xDLMS features: MULTIPLE_REFERENCES,READ,SELECTIVE_ACCESS
WRITE

Security features: (not collected)

Logical device(s) found:
(EMH000009999-267) SAP = 16 is "454D48303030303939392D323637"

SAP = 1 is "454D48393939392D323637" (EMH9999-267)

COSEM classes tested: 1,3,4,7(1),8,12(1),17,23(1)

COSEM classes found but not tested: (none)

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Summary of features tested for Test 4

This section provides an overview of the features tested, aggregated over all logical devices and Application Associations in one test session. Full information is available in the Test Result.

```
*****
* Identification *
*****
```

```
Identification = {
  Manufacturer = "\EMH metering GmbH & Co. KG"
  FLAGid = "\EMH"
  Type = "\LZQJ-XC (Version 267)"
  IUTIsModule = FALSE
  SerialNr = "\9999-267"
}
```

```
*****
* Summary *
*****
```

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC	36	0	4	0	32	0
APPL	69	0	17	0	52	0
COSEM	3120	0	0	36	3084	0
SYMSEC		All	(No association with a ciphered context supporting the required services)			

Communication profile: HDLC

Application context names: SHORT_NAMES

Security mechanisms: NO_SECURITY,LOW_LEVEL_SECURITY

ACSE and xDLMS features: MULTIPLE_REFERENCES,READ,SELECTIVE_ACCESS
WRITE

Security features: (not collected)

Logical device(s) found:
(EMH000009999-267) SAP = 16 is "454D48303030303939392D323637"

SAP = 1 is "454D48393939392D323637" (EMH9999-267)

COSEM classes tested: 1,3,4,7(1),8,12(1),17,23(1)

COSEM classes found but not tested: (none)