

Certification No. 2312

This is to certify that the metering equipment identified as:

Type: EDM-GENIUS-Mk6Es Active firmware(s): Id=6.02A V=23912
Mgmt. SAP = 1 is "45444D2D47454E4955532D4D6B364573" (EDM-GENIUS-Mk6Es)
Manufactured by: EDMI

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

- CTT version: CTT 3.1 extended edition, 64bits, release 107
- Licensed to: 20160729_EDMI_LTD (29/7/2016)
- COSEM object definitions file version: Object_defs_v3.6_Released_2_20200102.dat
- Media identifier(s): Abstract, Electricity

Tests	Comm. profile & opening mode	Application contexts	Security features	Date and time	Test Result hash value
Test 1 suite 1	HDLC, DIRECT_HLC	LONG_NAMES, LONG_NAMES _WITH_ CIPHERING	GENERAL_GLO_CIPHERING GENERAL_SIGNING SERVICE_SPECIFIC_GLO_ CIPHERING, SUITE_1 SECURITY_ACTIVATE, KEY_TRANSFER	18-MAR-2020 14:45:32	B32256C05347CAD2001DF13D361462E0B CE8064BDE4331A6EB5EEF3131ED596B
Test 2 suite 0				19-MAR-2020 12:38:14	628C5A573910FD864A5387B0D98D63D0 A7A16D532D365875D23B048A95F72345
Test 3 suite 1	TCP			17-MAR-2020 16:22:09	9AB7FF95A0E6A282F2E90FC26ED8A914 5FE3C60141EAE0D96D48E4A5D1EED17E
Test 4 suite 0				17-MAR-2020 15:15:01	49C16CE845115DE55F27444197C07F08A D2A3DB2F6B1ED69B7123A48A8E100F7

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 20th March 2020



Sergio Lazzarotto
Executive Director and President



Gyöző Kmethy
President Emeritus



Viktória Varjú
Certification Engineer

The DLMS UA is a not for profit Association in conformance with Art. 60ff of the Swiss Civil Code.
Commercial registration number CHE-440.972.101

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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 = "\EDMI"  
  FLAGid = "\EDM"  
  Type = "\EDM-GENIUS-Mk6Es"  
  SerialNr = "\9300000"  
  Comment = "\Mk6Es polyphase meter"  
  Comment = "\EDMI-meters"  
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC	36	0	1	0	35	0
APPL	58	0	16	0	42	0
COSEM	2758	0	16	28	2714	0
SYMSEC		All (No ciphered association with the required properties)				
PUBSEC	46	0	7	0	39	0
DP	0	0	0	0	0	0
GBT		All (No association with the required properties)				

```
Communication profile:          HDLC  
  
Application context names:     LONG_NAMES, LONG_NAMES_WITH_CIPHERING  
  
Authentication mechanisms:     NO_SECURITY, HIGH_LEVEL_SECURITY_ECDSA  
  
ACSE and xDLMS features:      ACTION, GET, MULTIPLE_REFERENCES  
                                SELECTIVE_ACCESS  
                                SERVICE_SPECIFIC_BLOCK_TRANSFER, SET  
  
Security features:             GENERAL_GLO_CIPHERING, GENERAL_SIGNING  
                                SERVICE_SPECIFIC_GLO_CIPHERING, SUITE_1  
                                SECURITY_ACTIVATE, KEY_TRANSFER  
  
Data protection features:      (not collected)  
  
Logical device(s) found:       SAP = 1 is "45444D2D47454E4955532D4D6B364573" (EDM-GENIUS-  
Mk6Es)  
  
Active firmware(s):           Id=6.02A V=23912  
  
COSEM classes tested:          1, 3, 4, 5, 6, 7(1), 8, 9, 11, 15(3), 17, 18, 19(1), 20  
                                21, 22, 23(1), 27(1), 28(2), 29(2), 40, 41, 42, 43  
                                44, 45, 48, 64(1), 70, 71  
  
COSEM classes found but not tested: 100
```

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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 = "\EDMI"  
  FLAGid = "\EDM"  
  Type = "\EDM-GENIUS-Mk6Es"  
  SerialNr = "\9300000"  
  Comment = "\Mk6Es polyphase meter"  
  Comment = "\EDMI-meters"  
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC	36	0	1	0	35	0
APPL	88	0	20	0	68	0
COSEM	5516	0	32	56	5428	0
SYMSEC	78	0	12	0	66	0
PUBSEC		All (No ciphered association with the required properties)				
DP	0	0	0	0	0	0
GBT		All (No association with the required properties)				

Communication profile: HDLC

Application context names: LONG_NAMES, LONG_NAMES_WITH_CIPHERING

Authentication mechanisms: NO_SECURITY, LOW_LEVEL_SECURITY
HIGH_LEVEL_SECURITY_GMAC

ACSE and xDLMS features: ACTION, GET, MULTIPLE_REFERENCES, RLRQ_RLRE
SELECTIVE_ACCESS
SERVICE_SPECIFIC_BLOCK_TRANSFER, SET

Security features: GENERAL_GLO_CIPHERING
SERVICE_SPECIFIC_GLO_CIPHERING, SUITE_0
SECURITY_ACTIVATE, KEY_TRANSFER

Data protection features: (not collected)

Logical device(s) found: SAP = 1 is "45444D2D47454E4955532D4D6B364573" (EDM-GENIUS-Mk6Es)

Active firmware(s): Id=6.02A V=23912

COSEM classes tested: 1, 3, 4, 5, 6, 7 (1), 8, 9, 11, 15 (3), 17, 18, 19 (1), 20
21, 22, 23 (1), 27 (1), 28 (2), 29 (2), 40, 41, 42, 43
44, 45, 48, 64 (1), 70, 71

COSEM classes found but not tested: 100

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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 = "\EDMI"  
  FLAGid = "\EDM"  
  Type = "\EDM-GENIUS-Mk6Es"  
  SerialNr = "\9300000"  
  Comment = "\Mk6Es polyphase meter"  
  Comment = "\EDMI-meters"  
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC		All(Communication profile not HDLC)				
APPL	58	0	15	0	43	0
COSEM	2758	0	16	28	2714	0
SYMSEC		All (No ciphered association with the required properties)				
PUBSEC	46	0	7	0	39	0
DP	0	0	0	0	0	0
GBT		All (No association with the required properties)				

```
Communication profile:          TCP  
  
Application context names:     LONG_NAMES, LONG_NAMES_WITH_CIPHERING  
  
Authentication mechanisms:    NO_SECURITY, HIGH_LEVEL_SECURITY_ECDSA  
  
ACSE and xDLMS features:      ACTION, GET, MULTIPLE_REFERENCES, RLRQ_RLRE  
                                SELECTIVE_ACCESS  
                                SERVICE_SPECIFIC_BLOCK_TRANSFER, SET  
  
Security features:            GENERAL_GLO_CIPHERING, GENERAL_SIGNING  
                                SERVICE_SPECIFIC_GLO_CIPHERING, SUITE_1  
                                SECURITY_ACTIVATE, KEY_TRANSFER  
  
Data protection features:      (not collected)  
  
Logical device(s) found:      SAP = 1 is "45444D2D47454E4955532D4D6B364573" (EDM-GENIUS-  
Mk6Es)  
  
Active firmware(s):          Id=6.02A V=23912  
  
COSEM classes tested:         1, 3, 4, 5, 6, 7(1), 8, 9, 11, 15(3), 17, 18, 19(1), 20  
                                21, 22, 23(1), 27(1), 28(2), 29(2), 40, 41, 42, 43  
                                44, 45, 48, 64(1), 70, 71  
  
COSEM classes found but not tested: 100
```

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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 = "\EDMI"  
  FLAGid = "\EDM"  
  Type = "\EDM-GENIUS-Mk6Es"  
  SerialNr = "\9300000"  
  Comment = "\Mk6Es polyphase meter"  
  Comment = "\EDMI-meters"  
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC		All (Communication profile not HDLC)				
APPL	88	0	19	0	69	0
COSEM	5516	0	32	56	5428	0
SYMSEC	78	0	12	0	66	0
PUBSEC		All (No ciphered association with the required properties)				
DP	0	0	0	0	0	0
GBT		All (No association with the required properties)				

```
Communication profile:          TCP  
  
Application context names:     LONG_NAMES, LONG_NAMES_WITH_CIPHERING  
  
Authentication mechanisms:    NO_SECURITY, LOW_LEVEL_SECURITY  
                               HIGH_LEVEL_SECURITY_GMAC  
  
ACSE and xDLMS features:     ACTION, GET, MULTIPLE_REFERENCES, RLRQ_RLRE  
                               SELECTIVE_ACCESS  
                               SERVICE_SPECIFIC_BLOCK_TRANSFER, SET  
  
Security features:            GENERAL_GLO_CIPHERING  
                               SERVICE_SPECIFIC_GLO_CIPHERING, SUITE_0  
                               SECURITY_ACTIVATE, KEY_TRANSFER  
  
Data protection features:     (not collected)  
  
Logical device(s) found:     SAP = 1 is "45444D2D47454E4955532D4D6B364573" (EDM-GENIUS-  
Mk6Es)  
  
Active firmware(s):          Id=6.02A V=23912  
  
COSEM classes tested:         1, 3, 4, 5, 6, 7 (1), 8, 9, 11, 15 (3), 17, 18, 19 (1), 20  
                               21, 22, 23 (1), 27 (1), 28 (2), 29 (2), 40, 41, 42, 43  
                               44, 45, 48, 64 (1), 70, 71  
  
COSEM classes found but not tested: 100
```