Certification No. 2349

This is to certify that the metering equipment identified as:

Type: MA309MH4LSA   Active firmware(s): Id=P2017 2020-04-26 S=AC642855
Id=100A1016 S=1C4D8D2D
Id=LE11B01SIM7600M11_OTA_CUS_KF
Mgmt. SAP = 1 is "534D5232303230383030303030303132" (SMR2020800000012)
Manufactured by: Saudi Meters Company ltd.

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

- CTT version: CTT 3.1 standard edition, 64bits, release 107
- Licensed to: 20170421_Shenzhen_Kaifa_Technology_Chengdu_Co_Ltd_Shenzen_CHINA (2017/4/21)
- 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 RS485	HDLC, DIRECT_HDLC	LONG_NAMES, LONG_NAMES _WITH_ CIPHERING	SERVICE_SPECIFIC_ DED_CIPHERING SERVICE_SPECIFIC_ GLO_CIPHERING, SUITE_0 KEY_TRANSFER	22-MAY-2020 17:18:10	33F22610DD3B50FE85F9D4F8672660DDB 50C3A55A2D4DE066C79BD5293179EDD
Test 2 IR	HDLC, MODE_E			22-MAY-2020 09:47:47	337ADD26B5F4AF5F923E092C6A621FCA 7BFF8DC61FF5F661B6BB2E5B09490C5D
Test 3 TCP	TCP			24-MAY-2020 14:41:19	E5C00BEFEEC381BC7ED75097128FF4FC FBF52AAD576815D233A2980FF17DCD7E

This MA309MH4LSA meter device type has already been certified as Certification No. 2292 at 28th February 2020 without dedicated key security feature and as Certification No. 2344 at 22nd April 2020 with dedicated key, Manufacturer: Shenzhen_Kaifa_Technology_Chengdu_Co_Ltd.

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.

COSEM Compliant

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 25th May 2020

Sergio Lazzarotto
Executive Director and President

Győző Kmethy
President Emeritus

Viktória Varjú
Certification Engineer

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Commercial registration number CHE-440.972.101

Certification No. 2349

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 = "\Saudi Meters Company ltd."
  FLAGid = "\SMR"
  Type = "\MA309MH4LSA"
  IUTIsModule = FALSE
  SerialNr = "\00000012"
  Comment = "\FOR CAMEL METER DLMS TEST"
  Comment = "\NO"
}

***********
* Summary *
***********


TYPE    TOTAL   SKIPPED   INAPPLICABLE   INCONCLUSIVE   PASSED   FAILED
----    -----   -------   ------------   ------------   ------   ------
HDLC    36      0         1              0              35       0
APPL    162     0         31             0              131      0
COSEM   68280   0         82             8901           59297    0
SYMSEC  58      0         10             0              48       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:               SERVICE_SPECIFIC_DED_CIPHERING
                                 SERVICE_SPECIFIC_GLO_CIPHERING,SUITE_0
                                 KEY_TRANSFER

Data protection features:        (not collected)

Logical device(s) found:
                                 SAP = 1 is "534D5232303230383030303030303132"
(SMR2020800000012)

Active firmware(s):              Id=P2017 2020-04-26 S=AC642855
                                 Id=100A1016 S=1C4D8D2D

COSEM classes tested:            1,3,4,5,6,7(1),8,9,11,15(1),17,18,19(1),20
                                 22,23(1),29(2),30,40,41,42,44,45,48,64,70
                                 74

COSEM classes found but not tested: 47(1)
```

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Certification No. 2349

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 = "\Saudi Meters Company ltd."
  FLAGid = "\SMR"
  Type = "\MA309MH4LSA"
  IUTIsModule = FALSE
  SerialNr = "\00000012"
  Comment = "\FOR CAMEL METER DLMS TEST"
  Comment = "\NO"
}

***********
* Summary *
***********


TYPE    TOTAL   SKIPPED   INAPPLICABLE   INCONCLUSIVE   PASSED   FAILED
----    -----   -------   ------------   ------------   ------   ------
HDLC            All(MODE_E)
APPL    162     0         31             0              131      0
COSEM   68112   0         82             8935           59095    0
SYMSEC  58      0         10             0              48       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:                SERVICE_SPECIFIC_DED_CIPHERING
                                  SERVICE_SPECIFIC_GLO_CIPHERING,SUITE_0
                                  KEY_TRANSFER

Data protection features:         (not collected)

Logical device(s) found:
                                  SAP = 1 is "534D5232303230383030303030303132"
(SMR2020800000012)

Active firmware(s):               Id=P2017 2020-04-26 S=AC642855
                                  Id=100A1016 S=1C4D8D2D

COSEM classes tested:             1,3,4,5,6,7(1),8,9,11,15(1),17,18,19(1),20
                                  22,23(1),29(2),30,40,41,42,44,45,48,64,70
                                  74

COSEM classes found but not tested: 47(1)
```

The DLMS UA is in conformance with Art. 60ff of the Swiss Civil Code.
Commercial registration number CHE-440.972.101

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Certification No. 2349

```
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 = "\Saudi Meters Company ltd."
  FLAGid = "\SMR"
  Type = "\MA309MH4LSA"
  IUTIsModule = FALSE
  SerialNr = "\00000012"
  Comment = "\FOR CAMEL METER DLMS TEST"
  Comment = "\NO"
}


***********
* Summary *
***********


TYPE    TOTAL   SKIPPED   INAPPLICABLE   INCONCLUSIVE   PASSED   FAILED
----    -----   -------   ------------   ------------   ------   ------
HDLC            All(Communication profile not HDLC)
APPL    162     0         30             0              132      0
COSEM   68280   0         82             8901           59297    0
SYMSEC  58      0         10             0              48       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:               SERVICE_SPECIFIC_DED_CIPHERING
                                 SERVICE_SPECIFIC_GLO_CIPHERING,SUITE_0
                                 KEY_TRANSFER

Data protection features:        (not collected)

Logical device(s) found:
                                 SAP = 1 is "534D52323032303830303030303031312"
(SMR2020800000012)

Active firmware(s):              Id=P2017 2020-04-26 S=AC642855
                                 Id=100A1016 S=1C4D8D2D
                                 Id=LE11B01SIM7600M11_OTA_CUS_KF

COSEM classes tested:            1,3,4,5,6,7(1),8,9,11,15(1),17,18,19(1),20
                                 22,23(1),29(2),30,40,41,42,44,45,48,64,70
                                 74

COSEM classes found but not tested: 47(1)
```