DLMS User Association

dlms
device
language ™
message
specification

Bahnhofstrasse 28   Tel. +36 28 514 065
CH-6302 Zug
Switzerland   dlms@dlms.com

Certification No. 2222

This is to certify that the metering equipment identified as:

Type: MP101C   Id=00000901 S=0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000

Id=01004400 S=0000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000

Id=09601300 S=8D73C07321F8E246C0A0447BCAAE38BE3E9D20C60F3607D8432441109789FF15209433F339767E47324321E649A7E95807FD11E9CA0E9C4F1B70CE00BFF3B9B0

Mgmt. SAP = 1 is "4B464D313130303130303030303030303132" (KFM1100100000012)

Manufactured by: ShenZhen Kaifa Technology(Chengdu)Co.,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_v3.3_released_180601.dat
- Media identifier(s): Abstract, Electricity

Tests	Comm. profile & opening mode	Application contexts	Security features	Date and time	Test Result hash value
Test 1	HDLC, DIRECT_HDLC	LONG_NAMES, LONG_NAMES _WITH_ CIPHERING	GENERAL_CIPHERING_WITH_ IDENTIFIED_KEY GENERAL_GLO_CIPHERING,G ENERAL_SIGNING SUITE_1, SECURITY_ACTIVATE, KEY_TRANSFER	31-OCT-2019 14:49:34	5A508671E9B21161B186EFD3 82DBB7541527D1C373B1E4A ED5317AB0E3CD393E

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.

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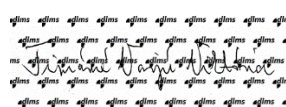
The test reports are filed by the DLMS UA. Copies are available from the manufacturer.

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 4th November 2019

Győző Kmethy   *Viktória Varjú Timárné*
President   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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```
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 = "\ShenZhen Kaifa Technology(Chengdu)Co.,Ltd."
  FLAGid = "\KFM"
  Type = "\MP101C"
  IUTIsModule = FALSE
  SerialNr = "\0100000012"
  Comment = "\FOR CUSK SP METER DLMS TEST"
  Comment = "\NO"
}


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


TYPE    TOTAL   SKIPPED   INAPPLICABLE   INCONCLUSIVE   PASSED   FAILED
----    -----   -------   ------------   ------------   ------   ------
HDLC    36      0         3              0              33       0
APPL    82      0         10             0              72       0
COSEM   2151    0         15             137            1999     0
SYMSEC          All (No ciphered association with the required properties)
PUBSEC  70      0         12             0              58       0
DP      0       0         0              0              0        0
GBT     25      0         2              5              18       0


Communication profile:            HDLC

Application context names:        LONG_NAMES,LONG_NAMES_WITH_CIPHERING

Authentication mechanisms:        NO_SECURITY,HIGH_LEVEL_SECURITY_SHA256
                                  HIGH_LEVEL_SECURITY_ECDSA

ACSE and xDLMS features:          ACCESS,GENERAL_BLOCK_TRANSFER,GBT_STREAMING
                                  GET,MULTIPLE_REFERENCES,RLRQ_RLRE
                                  SELECTIVE_ACCESS,SET

Security features:                GENERAL_CIPHERING_WITH_IDENTIFIED_KEY
                                  GENERAL_GLO_CIPHERING,GENERAL_SIGNING
                                  SUITE_1,SECURITY_ACTIVATE,KEY_TRANSFER

Data protection features:         (not collected)

Logical device(s) found:
                                  SAP = 1 is "4B464D31313030303130303030303030303132"
(KFM1100100000012)

Active firmware(s):               Id=00000901
S=000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000 Id=01004400
S=000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000
000000000000000000000000000000000000 Id=09601300
S=8D73C07321F8E246C0A0447BCAAE38BE3E9D20C60F3607D8432441109789FF15209433F339767E47324321E649A7E9
5807FD11E9CA0E9C4F1B70CE00BFF3B9B0

COSEM classes tested:             1,3,4,5,6,7(1),8,9,11,15(3),17,18,20,21,22
                                  23(1),29(2),40,41,43,48,64(1),70,71,90(1)
                                  91(1),92(1)

COSEM classes found but not tested:  (none)
```

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