dlms
device
language TM
message
specification

Certification No. 2198

This is to certify that the metering equipment identified as:

Type: MSM100
Mgmt. SAP = 1 is "5353453130323037303030303030303031" (SSE1020700000001)
Manufactured by: S&T Smart Energy GmbH

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

- CTT version: CTT 3.0 standard edition, 64bits (109)
- Licensed to: 20150706_Zheijang_Chint_Instrument_&_Meter_Co_Ltd_CHINA (2015/7/6)
- 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, MODE_E	LONG_NAMES, LONG_NAMES_ WITH_CIPHERING	ACTIVATE_SECURITY_POLICY GENERAL_DED_CIPHERING, GENERAL_GLO_CIPHERING KEY_TRANSFER	24-SEP-2019 19:45:09	9C847101E9A95DCEDF5D56 B75CC00BF64776F1561D5C B9797C7C9F4C95B4E21C
Test 2	TCP			24-SEP-2019 19:09:03	5614848821358069A7195357 95FA93BA5736ED788D0091 8B2B450ECB97182B4C

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.
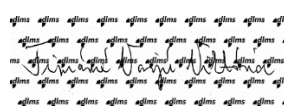
dlms
COSEM
Compliant

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 26th September 2019

Győző Kmethy
President

Viktória Varjú Timárné
Certification Engineer

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Commercial registration number CHE-440.972.101

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Certification No. 2198

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 = "\S&T Smart Energy GmbH"
  FLAGid = "\SSE"
  Type = "\MSM100"
  IUTIsModule = FALSE
  SerialNr = "\000000000001"
  Comment = "\This is a comment"
  Comment = "\This is another comment"
}

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


TYPE    TOTAL   SKIPPED   INAPPLICABLE   INCONCLUSIVE   PASSED   FAILED
----    -----   -------   ------------   ------------   ------   ------
HDLC            All(MODE_E)
APPL    49      0         10             0              39       0
COSEM   4839    0         55             55             4729     0
SYMSEC  78      0         1              0              77       0


Communication profile:              HDLC

Application context names:          LONG_NAMES,LONG_NAMES_WITH_CIPHERING

Security mechanisms:                NO_SECURITY,HIGH_LEVEL_SECURITY_GMAC

ACSE and xDLMS features:            ACTION,GENERAL_BLOCK_TRANSFER,GET
                                    MULTIPLE_REFERENCES
                                    SERVICE_SPECIFIC_BLOCK_TRANSFER,SET

Security features:                  ACTIVATE_SECURITY_POLICY
                                    GENERAL_DED_CIPHERING,GENERAL_GLO_CIPHERING
                                    KEY_TRANSFER

Logical device(s) found:
                                    SAP = 1 is "5353453130323037303030303030031"
(SSE1020700000001)

COSEM classes tested:               1,3,4,5,6,7(1),8,9,11,15(1),17,18,19(1),20
                                    21,22,23(1),27(1),29(2),40,41,42,43,45,47
                                    48,64,70,71,90(1),91(1),92(1)


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

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Certification No. 2198

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 = "\S&T Smart Energy GmbH"
  FLAGid = "\SSE"
  Type = "\MSM100"
  IUTIsModule = FALSE
  SerialNr = "\000000000001"
  Comment = "\This is a comment"
  Comment = "\This is another comment"
}

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

TYPE    TOTAL   SKIPPED   INAPPLICABLE   INCONCLUSIVE   PASSED   FAILED
----    -----   -------   ------------   ------------   ------   ------
HDLC            All(Communication profile not HDLC)
APPL    49      0         10             0              39       0
COSEM   4839    0         55             55             4729     0
SYMSEC  78      0         1              0              77       0


Communication profile:            TCP

Application context names:        LONG_NAMES,LONG_NAMES_WITH_CIPHERING

Security mechanisms:              NO_SECURITY,HIGH_LEVEL_SECURITY_GMAC

ACSE and xDLMS features:          ACTION,GENERAL_BLOCK_TRANSFER,GET
                                  MULTIPLE_REFERENCES
                                  SERVICE_SPECIFIC_BLOCK_TRANSFER,SET

Security features:                ACTIVATE_SECURITY_POLICY
                                  GENERAL_DED_CIPHERING,GENERAL_GLO_CIPHERING
                                  KEY_TRANSFER

Logical device(s) found:
                                  SAP = 1 is "5353453130323037303030303030303031"
(SSE1020700000001)

COSEM classes tested:             1,3,4,5,6,7(1),8,9,11,15(1),17,18,19(1),20
                                  21,22,23(1),27(1),29(2),40,41,42,43,45,47
                                  48,64,70,71,90(1),91(1),92(1)


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