

## **DLMS UserAssociation**

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# Certification No. 1818

This is to certify that the metering equipment identified as:

Type: IRANTECH300 CT

Mgmt. Logical Device Name: SAP = 1 is "485845303034303730303030303031" (HXE004070000001)

Manufactured by: HEXING Electrical Co. Ltd.

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

• CTT version: CTT 3.0 standard edition, 64bits (108)

Licensed to: 20160314\_HEXING\_Electrical\_Co\_Ltd\_CHI (2016/3/14)

COSEM object definitions file version: Object\_defs\_v3.0\_Released\_170127.dat

• Media identifier(s): Abstract, Electricity

Tests	Comm. profile & opening mode	Application contexts	Security features	Date and time	Test Result hash value
Test 1 GPRS	ТСР	LONG_NAMES_WITH _CIPHERING	ACTIVATE_SECURITY_POLICY, GENERAL_DED_CIPHERING, GENERAL_GLO_CIPHERING, KEY_TRANSFER	28-APR- 2017 22:40:24	0E6686C70E5678E84DCBC72A 91AEDB2B94B40AF64373ADC EBF5297C645DCA8EF
Test 2 optical	HDLC	LONG_NAMES, LONG_NAMES_WITH _CIPHERING	GENERAL_DED_CIPHERING,GEN ERAL_GLO_CIPHERING	28-APR- 2017 16:25:35	E7C020961F17297A2EC6D6E4 EE611BEC57B52B339E812DEA BAD9DBA6CCAEF4B5
Test 3 RS485	HDLC	LONG_NAMES, LONG_NAMES_WITH _CIPHERING	GENERAL_DED_CIPHERING,GEN ERAL_GLO_CIPHERING	28-APR- 2017 15:09:21	22335FA83D3498F0FADCB035 29F367D7CD87DC9B88519424 14299D9FEE6221A6

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: <a href="https://www.dlms.com">www.dlms.com</a>.

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 12th May 2017

Győző Kmethy President

## Certification No. 1818

#### 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 = "\HEXING Electrical Co. Ltd."
 FLAGid = "\HXE"
 Type = "\IRANTECH300 CT"
 IUTIsModule = FALSE
 SerialNr = "\0000001"
 Comment = "\Application Context: LN_WITH-CIPHERING, Authentication mechanisem GMAC
Dedicated Key= TRUE"
 Comment = "\Client:Management for TCP"
*****
* Summary *
*****
TYPE TOTAL SKIPPED INAPPLICABLE INCONCLUSIVE PASSED FAILED
--- ---- -----
HDLC All(Communication profile not HDLC)
APPL 33 0 17 0
COSEM 1873 0 2 52
                                                    16 0
1819 0
            0
SYMSEC 81
                      10
                                    0
                                                    71
Communication profile:
                                  TCP
Application context names:
                                  LONG NAMES WITH CIPHERING
Security mechanisms:
                                   HIGH LEVEL SECURITY GMAC
ACSE and xDLMS features:
                                   ACTION, DATA NOTIFICATION, GET
                                   MULTIPLE REFERENCES, RLRQ_RLRE
                                   SELECTIVE ACCESS
                                   SERVICE SPECIFIC BLOCK TRANSFER, SET
                                   ACTIVATE SECURITY POLICY
Security features:
                                   GENERAL DED CIPHERING, GENERAL GLO CIPHERING
                                   KEY TRANSFER
Logical device(s) found:
                                  SAP = 1 is "48584530303430373030303030303031"
(HXE0040700000001)
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), 28(2), 29(2), 40, 41, 42, 43
                                   44, 45, 64, 70, 71, 72, 74
COSEM classes found but not tested: (none)
```

#### 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 = "\HEXING Electrical Co. Ltd."
 FLAGid = "\HXE"
 Type = "\IRANTECH300 CT"
 IUTIsModule = FALSE
 SerialNr = "\0000001"
 Comment = "\Application Context: LN_WITH-CIPHERING, Authentication mechanisem GMAC
Dedicated Key= TRUE"
 Comment = "\Client:Public,Management,reading for Optical"
*****
* Summary *
*****
TYPE TOTAL SKIPPED INAPPLICABLE INCONCLUSIVE PASSED FAILED
HDLC All (MODE_E)
APPL 66 0 11
COSEM 5647 0 74
SYMSEC 71 0 24
                                                      55
                                      98
                                                     5475
                                       0
                                                      47
Communication profile:
                                   HDLC
Application context names:
                                   LONG NAMES, LONG NAMES WITH CIPHERING
Security mechanisms:
                                     NO SECURITY, HIGH LEVEL SECURITY GMAC
                                     GENERAL BLOCK TRANSFER, GET
ACSE and xDLMS features:
                                     MULTIPLE REFERENCES, RLRQ RLRE
                                     SELECTIVE ACCESS
                                     SERVICE SPECIFIC BLOCK TRANSFER
Security features:
                                    GENERAL DED CIPHERING, GENERAL GLO CIPHERING
Logical device(s) found:
                                    SAP = 1 is "48584530303430373030303030303031"
(HXE0040700000001)
                                    1,3,4,5,6,7(1),8,9,11,15(1),17,18,19(1),20
COSEM classes tested:
                                     21, 22, 23(1), 27(1), 28(2), 29(2), 40, 41, 42, 43
                                     44, 45, 64, 70, 71, 72, 74
COSEM classes found but not tested: (none)
```

## Certification No. 1818

#### 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 = "\HEXING Electrical Co. Ltd."
 FLAGid = "\HXE"
 Type = "\IRANTECH300 CT"
 IUTIsModule = FALSE
 SerialNr = "\0000001"
 Comment = "\Application Context: LN WITH-CIPHERING, Authentication mechanisem GMAC
Dedicated Key= TRUE"
  Comment = "\Client:Public,Management,reading for RS485"
*****
* Summary *
******
TYPE TOTAL SKIPPED INAPPLICABLE INCONCLUSIVE PASSED FAILED
HDLC 36 0
APPL 66 0
COSEM 5605 0
                                                          0
                1
11
                                    Ω
                                                  35
                     11
74
                                                          0
                                    0
                                                  55
                                                5419
                                    112
            0
SYMSEC 71
                     24
                                                          0
                                   0
                                                  47
Communication profile:
                                 HDLC
Application context names:
                                 LONG NAMES, LONG NAMES WITH CIPHERING
Security mechanisms:
                                  NO SECURITY, HIGH LEVEL SECURITY GMAC
ACSE and xDLMS features:
                                  GENERAL BLOCK TRANSFER, GET
                                  MULTIPLE REFERENCES, RLRQ_RLRE
                                  SELECTIVE ACCESS
                                  SERVICE SPECIFIC BLOCK TRANSFER
Security features:
                                  GENERAL DED CIPHERING, GENERAL GLO CIPHERING
Logical device(s) found:
                                  SAP = 1 is "48584530303430373030303030303031"
(HXE0040700000001)
                                  1,3,4,5,6,7(1),8,9,11,15(1),17,18,19(1),20
COSEM classes tested:
                                  21, 22, 23(1), 27(1), 28(2), 29(2), 40, 41, 42, 43
                                  44, 45, 64, 70, 71, 72, 74
COSEM classes found but not tested: (none)
```