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# Certification No. 1906

This is to certify that the metering equipment identified as:

### Type: HXE130

### Mgmt. Logical Device Name: SAP = 1 is "4858453030313037333030303030303031" (HXE0010730000001)

### Manufactured by: Hexing Electrical Co.,Ltd.

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

- CTT version: CTT 3.0 extended edition, 64bits (109)
- Licensed to: 20160314\_HEXING\_Electrical\_Co\_Ltd\_CHI (2016/3/14)
- COSEM object definitions file version: Object\_defs\_v3.1\_released\_170313.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, LONG_NAMES_WITH _CIPHERING	ACTIVATE_SECURITY_POLICY, GENERAL_DED_CIPHERING, GENERAL_GLO_CIPHERING, KEY_TRANSFER	04-DEC- 2017 09:19:17	35B490137FE4238BDFE52DD44B 7E861708D9FB72D45F410577BF6 B834D8148EE
Test 2 optical	HDLC	LONG_NAMES, LONG_NAMES_WITH _CIPHERING	GENERAL_DED_CIPHERING, GENERAL_GLO_CIPHERING	01-DEC- 2017 15:25:49	7E78F358AFFB6FF561F3E302A6 A0875E3129F1248226773135EF11 FEAAF403A8
Test 3 RS485	HDLC	LONG_NAMES, LONG_NAMES_WITH _CIPHERING	GENERAL_DED_CIPHERING, GENERAL_GLO_CIPHERING	01-DEC- 2017 15:59:07	0B708F1138012FFAB16891201A2 9C5CE0C359B34E5511C92B65C5 6283967BD1A

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: <u>www.dlms.com</u>.

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 12<sup>th</sup> December 2017

Győző Kmethy President

**DLMS** User Association

dlms@dlms.com

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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 = "\Hexing Electrical Co., Ltd."
 FLAGid = "\HXE"
 Type = "\HXE130"
 IUTIsModule = FALSE
 SerialNr = "\3000001"
 Comment = "\Application Context: LN WITH-CIPHERING, Authentication mechanisem GMAC
Dedicated Key= TRUE"
  Comment = "\Client:Public,Management for TCP"
}
******
* Summary *
*******
TYPE TOTAL SKIPPED INAPPLICABLE INCONCLUSIVE PASSED FAILED
---- ----- ------ ------ ------ ------
HDLCAll(Communication profile not HDLC)APPL490100COSEM11490826
                                                             0
0
                                                     39
                                                     1115
             0 16
                                     0
                                                              0
SYMSEC 74
                                                     58
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, GET, MULTIPLE_REFERENCES, RLRQ_RLRE
                                    SELECTIVE ACCESS
                                    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 "48584530303130373330303030303031"
(HXE001073000001)
                                    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
COSEM classes found but not tested: (none)
```

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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 = "\Hexing Electrical Co., Ltd."
  FLAGid = "\HXE"
 Type = "\HXE130"
 IUTIsModule = FALSE
 SerialNr = "\3000001"
 Comment = "\Application Context: LN WITH-CIPHERING, Authentication mechanisem GMAC
Dedicated Key= TRUE"
  Comment = "\Client:Public,Management for Optical"
}
******
* Summary *
********
TYPE TOTAL SKIPPED INAPPLICABLE INCONCLUSIVE PASSED FAILED
---- ----- ------ ------ ------ ------
HDLC 36 0
APPL 49 0
COSEM 1149 0
                                                              0
                 1
10
8
                                      0
                                                    35
                                                    39
1115
                                                              0
0
                                      0
                                      26
             0 22
SYMSEC 55
                                                              0
                                      0
                                                     33
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, GET, MULTIPLE REFERENCES, RLRQ RLRE
                                    SELECTIVE ACCESS
                                    SERVICE SPECIFIC BLOCK TRANSFER, SET
Security features:
                                    GENERAL DED CIPHERING, GENERAL GLO CIPHERING
Logical device(s) found:
                                    SAP = 1 is "48584530303130373330303030303031"
(HXE001073000001)
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
COSEM classes found but not tested: (none)
```

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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 = "\Hexing Electrical Co., Ltd."
  FLAGid = "\HXE"
 Type = "\HXE130"
 IUTIsModule = FALSE
 SerialNr = "\3000001"
 Comment = "\Application Context: LN WITH-CIPHERING, Authentication mechanisem GMAC
Dedicated Key= TRUE"
  Comment = "\Client:Public,Management for RS485"
}
******
* Summary *
********
TYPE TOTAL SKIPPED INAPPLICABLE INCONCLUSIVE PASSED FAILED
---- ----- ------ ------ ------ ------
HDLC 36 0
APPL 49 0
COSEM 1149 0
                                                              0
                 1
10
8
                                      0
                                                    35
                                                    39
1115
                                                              0
0
                                      0
                                      26
             0 22
SYMSEC 55
                                                              0
                                      0
                                                     33
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, GET, MULTIPLE REFERENCES, RLRQ RLRE
                                    SELECTIVE ACCESS
                                    SERVICE SPECIFIC BLOCK TRANSFER, SET
Security features:
                                    GENERAL DED CIPHERING, GENERAL GLO CIPHERING
Logical device(s) found:
                                    SAP = 1 is "48584530303130373330303030303031"
(HXE001073000001)
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
COSEM classes found but not tested: (none)
```