

## **DLMS User Association**

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dlms@dlms.com

# Certification No. 2215

This is to certify that the metering equipment identified as:

Type: WSA110 Id=WSA110 E- METER.0002.V1.0.1 S=5K

Mgmt. SAP = 1 is "57534731333230313930393137303031" (WSG1320190917001)

Manufactured by: Zhejiang WELLSUN Intelligent Technology 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: 20190912\_ZWIT\_Zhejiang (2019-09-12)
- 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_GLO_ CIPHERING, SERVICE_ SPECIFIC_GLO_ CIPHERING, SUITE_0 SECURITY_ACTIVATE, KEY_TRANSFER	16-OCT-2019 10:40:56	02EF88BBE21FF65D4C1806E9029BFB2C1 332FAA0D0B7F73CEB2F6C372D847809
Test 2	HDLC, MODE_E			16-OCT-2019 10:56:15	712A4A081D397BE83784C8AF2B5A8D79 F56FB30255DE3A604C28E344DE0AA7D5
Test 3	ТСР			16-OCT-2019 11:32:53	C574BEC067440EF96C625E455DA31D29E A79E390ADBE8D0BC267D612AB1F1464

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 16<sup>th</sup> October 2019

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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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#### 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 = "\Zhejiang WELLSUN Intelligent Technology Co.,Ltd." FLAGid = "\WSG" Type = "\WSA110" ConfigurationId = "\ConfigurationId" SerialNr = "320190917001"Comment = "\comment 1" Comment = "\comment N" \*\*\*\*\*\* \* Summary \* \*\*\*\*\* TYPE TOTAL SKIPPED INAPPLICABLE INCONCLUSIVE PASSED FAILED 0  $\cap$ () HDLC 36 4 32 APPL 56 COSEM 957 17 7 0 0 39 0 0 10 940 SYMSEC 36 0 9 0 2.

PUBSEC All (No ciphered association with the required properties) 0 9 All (No association with the required properties) GBT Communication profile: HDLC LONG NAMES, LONG NAMES WITH CIPHERING Application context names: Authentication mechanisms: NO SECURITY, HIGH LEVEL SECURITY GMAC ACSE and xDLMS features: ACTION, GET, MULTIPLE REFERENCES SELECTIVE ACCESS SERVICE SPECIFIC BLOCK TRANSFER, SET Security features: GENERAL\_GLO\_CIPHERING SERVICE SPECIFIC GLO CIPHERING, SUITE 0 SECURITY\_ACTIVATE, KEY\_TRANSFER Data protection features: (not collected) Logical device(s) found: SAP = 1 is "57534731333230313930393137303031" (WSG1320190917001) Id=WSA110 E- METER.0002.V1.0.1 S=5K Active firmware(s): COSEM classes tested: 1,3,4,5,6,7(1),8,9,11,15(1),17,18,20,21,22

70,71

COSEM classes found but not tested: (none)

23(1),27(1),28(2),29(2),40,41,42,44,45,64

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#### Summary of features tested for Test 2

COSEM classes tested:

COSEM classes found but not tested: (none)

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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 = "\Zhejiang WELLSUN Intelligent Technology Co.,Ltd."
 FLAGid = "\WSG"
 Type = "\WSA110"
 ConfigurationId = "\ConfigurationId"
 SerialNr = "320190917001"
 Comment = "\comment 1"
 Comment = "\comment N"
******
* Summary *
*****
TYPE TOTAL SKIPPED INAPPLICABLE INCONCLUSIVE PASSED FAILED
HDLC
             All(MODE_E)
APPL 56
COSEM 957
             0 17
                                      0
                                                     39
                                                               0
              0
                                       10
                                                     940
SYMSEC 36 0 9 0 27 0
PUBSEC All (No ciphered association with the required properties)
                                    0
                                                0
                   0
             All (No association with the required properties)
GBT
Communication profile:
                                    HDLC
                                   LONG NAMES, LONG NAMES WITH CIPHERING
Application context names:
Authentication mechanisms:
                                    NO SECURITY, HIGH LEVEL SECURITY GMAC
ACSE and xDLMS features:
                                    ACTION, GET, MULTIPLE REFERENCES
                                    SELECTIVE ACCESS
                                    SERVICE SPECIFIC BLOCK TRANSFER, SET
Security features:
                                    GENERAL_GLO_CIPHERING
                                    SERVICE SPECIFIC GLO CIPHERING, SUITE 0
                                    SECURITY_ACTIVATE, KEY_TRANSFER
Data protection features:
                                    (not collected)
Logical device(s) found:
                                    SAP = 1 is "57534731333230313930393137303031"
(WSG1320190917001)
                                    Id=WSA110 E- METER.0002.V1.0.1 S=5K
Active firmware(s):
```

70,71

1,3,4,5,6,7(1),8,9,11,15(1),17,18,20,21,22 23(1),27(1),28(2),29(2),40,41,42,44,45,64

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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 = "\Zhejiang WELLSUN Intelligent Technology Co.,Ltd." FLAGid = "\WSG" Type = "\WSA110" ConfigurationId = "\ConfigurationId" SerialNr = "320190917001"Comment = "\comment 1" Comment = "\comment N" \*\*\*\*\*\* \* Summary \* \*\*\*\*\* TYPE TOTAL SKIPPED INAPPLICABLE INCONCLUSIVE PASSED FAILED HDLC All(Communication profile not HDLC) APPL 56 COSEM 957 40 0 16 0 0 0 7 10 940 SYMSEC 36 0 9 27 0 0 All (No ciphered association with the required properties) PUBSEC 0 0 0 All (No association with the required properties) GBT Communication profile: TCP LONG NAMES, LONG NAMES WITH CIPHERING Application context names: Authentication 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\_GLO\_CIPHERING SERVICE SPECIFIC GLO CIPHERING, SUITE 0 SECURITY\_ACTIVATE, KEY\_TRANSFER Data protection features: (not collected) Logical device(s) found: SAP = 1 is "57534731333230313930393137303031" (WSG1320190917001) Id=WSA110 E- METER.0002.V1.0.1 S=5K Active firmware(s): COSEM classes tested: 1,3,4,5,6,7(1),8,9,11,15(1),17,18,20,21,22

70,71

COSEM classes found but not tested: (none)

23(1),27(1),28(2),29(2),40,41,42,44,45,64