

## Certification No. 2281

This is to certify that the metering equipment identified as:

**Type: NW34-R08 Active firmware(s): Id=R11.9 2019-12-31 ,Id=\_002823V  
Id=RFWAN\_4G\_SIM7600E\_SMR\_002823V2\_21200108**  
**Mgmt. SAP = 1 is "4C5945333030303132333435363738" (LYE3000012345678)**  
**Manufactured by: JIANGSU LINYANG ENERGY 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: 20161118\_Jiangsu\_Linyang\_Energy\_Co\_Ltd\_Qidong\_China (2016/11/18)
- 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	SERVICE_SPECIFIC_ GLO_CIPHERING, SUITE_0 SECURITY_ACTIVATE KEY_TRANSFER	14-JAN-2020 09:18:05	A31656A75E424C4408E03DB99B1227225B 1E0C4ABB68F1602F7BB4788BF9917D
Test 2	HDLC, MODE_E			13-JAN-2020 17:55:57	0BFAC8D2C93450CDFABFBBA3FA906E 4C07ED948A26D53BD849BD3D337482785
Test 3	TCP			15-JAN-2020 08:24:52	06A0837CE03C6E539FE35CD6B43B988A51 FDD1ACD1BD4ED697D1777D9A4E3D54

This NW34-R08 meter device type has already been certified as Certification no. 2048 tested at 14<sup>th</sup> December 2018 with different Active firmware Id.

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](http://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.



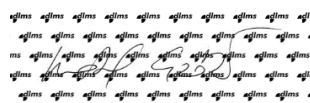
The test reports are filed by the DLMS UA. Copies are available from the manufacturer.

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 30<sup>th</sup> January 2020



Sergio Lazzarotto  
Executive Director and President



Gyöző Kmethy  
President Emeritus



Viktória Varjú  
Certification Engineer

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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 = "\JIANGSU LINYANG ENERGY CO.,LTD"
  FLAGid = "\LYE"
  Type = "\NW34-R08"
  SerialNr = "\12345678"
  Comment = "\Application Context: LN_WITH-CIPHERING, Authentication mechanism GMAC Dedicated
Key= TRUE"
  Comment = "\Client:A1,A2,A3,A4,A5 with DIRECT_HDLC"
}

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

TYPE      TOTAL      SKIPPED      INAPPLICABLE      INCONCLUSIVE      PASSED      FAILED
----      -
HDLC      36           0            1                 0                 35          0
APPL      159          0            24                0                 135         0
COSEM     40478        0            81                4191              36206       0
SYMSEC    158          0            32                0                 126         0
PUBSEC    All (No ciphered association with the required properties)
DP        180          0            76                0                 104         0
GBT       All (No association with the required properties)

Communication profile:          HDLC

Application context names:     LONG_NAMES, LONG_NAMES_WITH_CIPHERING

Authentication mechanisms:     NO_SECURITY, LOW_LEVEL_SECURITY
                               HIGH_LEVEL_SECURITY_GMAC

ACSE and xDLMS features:      ACTION, GET, SELECTIVE_ACCESS
                               SERVICE_SPECIFIC_BLOCK_TRANSFER, SET

Security features:             SERVICE_SPECIFIC_GLO_CIPHERING, SUITE_0
                               SECURITY_ACTIVATE, KEY_TRANSFER

Data protection features:      PROTECTION_BUFFER_GET, PROTECTION_BUFFER_SET

Logical device(s) found:      SAP = 1 is "4C594533303030303132333435363738"
(LYE3000012345678)

Active firmware(s):           Id=R11.9 2019-12-31 , Id=_002823V
                               Id=RFWAN_4G_SIM7600E_SMR_002823V2_21200108

COSEM classes tested:         1, 3, 4, 5, 6, 7 (1), 8, 9, 11, 15 (1), 17, 18, 19 (1), 20
                               22, 23 (1), 29 (2), 30, 40, 41, 42, 43, 44, 45, 64, 70

COSEM classes found but not tested: 28 (1), 47 (1), 90, 91, 92
```

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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 = "\JIANGSU LINYANG ENERGY CO.,LTD"
  FLAGid = "\LYE"
  Type = "\NW34-R08"
  SerialNr = "\12345678"
  Comment = "\Application Context: LN_WITH-CIPHERING, Authentication mechanism GMAC Dedicated
Key= TRUE"
  Comment = "\Client:A1,A2,A3,A4,A5 with MODE E"
}

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

TYPE      TOTAL      SKIPPED      INAPPLICABLE      INCONCLUSIVE      PASSED      FAILED
----      -
HDLC
APPL      159      0      24      0      135      0
COSEM     40849    0      81      4085      36683      0
SYMSEC    158      0      32      0      126      0
PUBSEC
DP         180      0      76      0      104      0
GBT
          All (No ciphered association with the required properties)
          All (No association with the required properties)

Communication profile:          HDLC

Application context names:      LONG_NAMES, LONG_NAMES_WITH_CIPHERING

Authentication mechanisms:      NO_SECURITY, LOW_LEVEL_SECURITY
                                HIGH_LEVEL_SECURITY_GMAC

ACSE and xDLMS features:       ACTION, GET, SELECTIVE_ACCESS
                                SERVICE_SPECIFIC_BLOCK_TRANSFER, SET

Security features:              SERVICE_SPECIFIC_GLO_CIPHERING, SUITE_0
                                SECURITY_ACTIVATE, KEY_TRANSFER

Data protection features:       PROTECTION_BUFFER_GET, PROTECTION_BUFFER_SET

Logical device(s) found:
                                SAP = 1 is "4C594533303030303132333435363738"
(LYE3000012345678)

Active firmware(s):             Id=R11.9 2019-12-31 , Id=_002823V
                                Id=RFWAN_4G_SIM7600E_SMR_002823V2_21200108

COSEM classes tested:           1, 3, 4, 5, 6, 7 (1), 8, 9, 11, 15 (1), 17, 18, 19 (1), 20
                                22, 23 (1), 29 (2), 30, 40, 41, 42, 43, 44, 45, 64, 70

COSEM classes found but not tested: 28 (1), 47 (1), 90, 91, 92
```

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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 = "\JIANGSU LINYANG ENERGY CO.,LTD"
  FLAGid = "\LYE"
  Type = "\NW34-R08"
  SerialNr = "\12345678"
  Comment = "\Application Context: LN_WITH-CIPHERING, Authentication mechanism GMAC Dedicated
Key= TRUE"
  Comment = "\Client:A1,A2,A3,A4,A5 with TCP"
}

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

TYPE      TOTAL      SKIPPED      INAPPLICABLE      INCONCLUSIVE      PASSED      FAILED
----      -
HDLC                      All(Communication profile not HDLC)
APPL      159           0            23                0                136         0
COSEM     40835        0            81                4089             36665       0
SYMSEC    158          0            32                0                126         0
PUBSEC                      All (No ciphered association with the required properties)
DP        180          0            76                0                104         0
GBT                      All (No association with the required properties)

Communication profile:          TCP

Application context names:      LONG_NAMES, LONG_NAMES_WITH_CIPHERING

Authentication mechanisms:      NO_SECURITY, LOW_LEVEL_SECURITY
                                HIGH_LEVEL_SECURITY_GMAC

ACSE and xDLMS features:       ACTION, GET, RLRQ_RLRE, SELECTIVE_ACCESS
                                SERVICE_SPECIFIC_BLOCK_TRANSFER, SET

Security features:              SERVICE_SPECIFIC_GLO_CIPHERING, SUITE_0
                                SECURITY_ACTIVATE, KEY_TRANSFER

Data protection features:       PROTECTION_BUFFER_GET, PROTECTION_BUFFER_SET

Logical device(s) found:
                                SAP = 1 is "4C594533303030303132333435363738"
(LYE3000012345678)

Active firmware(s):             Id=R11.9 2019-12-31 , Id=_002823V
                                Id=RFWAN_4G_SIM7600E_SMR_002823V2_21200108

COSEM classes tested:           1, 3, 4, 5, 6, 7 (1), 8, 9, 11, 15 (1), 17, 18, 19 (1), 20
                                22, 23 (1), 29 (2), 30, 40, 41, 42, 43, 44, 45, 64, 70

COSEM classes found but not tested: 28 (1), 47 (1), 90, 91, 92
```