

Certification No. 1917

This is to certify that the metering equipment identified as:

Type: LY-SM150

Mgmt. Logical Device Name: SAP = 1 is "4C594531303230373737383838383838" (LYE1020777888888)

Manufactured by: JIANGSU LINYANG ENERGY CO.,LTD

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

- CTT version: CTT 3.0 extended edition, 64bits (108)
- Licensed to: 20161118_Jiangsu_Linyang_Energy_Co_Ltd_Qidong_China (2016/11/18)
- 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	HDLC, DIRECT_HDLC	LONG_NAMES, LONG_NAMES_WITH _CIPHERING	ACTIVATE_SECURITY_POLICY, GENERAL_DED_CIPHERING, GENERAL_GLO_CIPHERING, KEY_TRANSFER	27-JAN- 2018 18:04:35	328A2A5BC7B70F89513AEE2969 C87DDE7A5FC24285378180F51F F6CE25F23E54
Test 2	HDLC, MODE_E			27-JAN- 2018 17:44:03	6B42951ADA8EFD4D85336C4B5 6A6F788FAE5BB1B164BED75A A616A8D328F642F

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.



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 30th January 2018



Gyöző Kmety
President

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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 = "\LY-SM150"  
  IUTIsModule = FALSE  
  SerialNr = "\77888888"  
  Comment = "\Application Context: LN_WITH-CIPHERING, Authentication mechanism GMAC  
Dedicated Key= TRUE"  
  Comment = "\Client:Public,Management for Optical HDLC"  
}
```

```
*****  
* Summary *  
*****
```

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
HDLC	36	0	1	0	35	0
APPL	49	0	10	0	39	0
COSEM	1701	0	10	46	1645	0
SYMSEC	81	0	10	0	71	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, 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 "4C5945313032303737373838383838"  
(LYE1020777888888)  
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, 48, 64, 70, 71, 72, 74  
COSEM classes found but not tested: 47 (2), 100, 122
```

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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 = "\LY-SM150"
  IUTIsModule = FALSE
  SerialNr = "\77888888"
  Comment = "\Application Context: LN_WITH-CIPHERING, Authentication mechanisem GMAC
Dedicated Key= TRUE"
  Comment = "\Client:Public,Management for Optical Mode E"
}
```

```
*****
* Summary *
*****
```

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC		All (MODE_E)				
APPL	49	0	10	0	39	0
COSEM	1701	0	10	46	1645	0
SYMSEC	81	0	10	0	71	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, 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 "4C594531303230373737383838383838"
                               (LYE1020777888888)

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, 48, 64, 70, 71, 72, 74

COSEM classes found but not tested: 47(2), 100, 122
```