

## Certification No. 1897

This is to certify that the metering equipment identified as:

**Type: LGG360K**

**Mgmt. Logical Device Name: SAP = 1 is "4C4747313031303730303030303032" (LGG1010700000002)**

**Manufactured by: NINGXIA LGG INSTRUMENT CO.,LTD.**

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

- CTT version: CTT 3.0 standard edition, 64bits (102)
- Licensed to: 20170909\_NINGXIA\_LGG\_INSTRUMENT\_CO\_LTD\_Hangzhou\_China (2017-09-09)
- 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	HDLC, DIRECT_HDLC	LONG_NAMES	—	09-NOV-2017 18:09:45	B65BAE3D0E1B8311331B72CC5BEADFE3 1857BD1E7926C58AF1329208FFD5E5CF
Test 2	HDLC, MODE_E	LONG_NAMES	—	09-NOV-2017 20:28:15	44490AE92AB8D0C5B7AF5B52C4D7C703F 812C9D7A4EE7B073CEDF443D1682F39
Test 3	TCP	LONG_NAMES	—	09-NOV-2017 17:53:41	08A46372ED907FC126FBC9F15E9F31A369 B8ED893FB23C8065D43D2522256BAE

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 15<sup>th</sup> November 2017



Gyöző Kmethy  
President

# Certification No. 1897

## 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 = "\NINGXIA LGG INSTRUMENT CO.,LTD."  
  FLAGid = "\LGG"  
  Type = "\LGG360K"  
  SerialNr = "\0159000000020"  
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC	36	0	1	0	35	0
APPL	57	0	19	0	38	0
COSEM	2555	0	2	72	2481	0
SYMSEC		All (No ciphered association with the required properties)				
PUBSEC		All (No ciphered association with the required properties)				

```
Communication profile:          HDLC  
Application context names:     LONG_NAMES  
Authentication mechanisms:     NO_SECURITY,LOW_LEVEL_SECURITY  
ACSE and xDLMS features:      GET,SERVICE_SPECIFIC_BLOCK_TRANSFER,SET  
Security features:             (not collected)  
Data protection features:      (not collected)  
Logical device(s) found:      SAP = 1 is "4C4747313031303730303030303032"  
(LGG1010700000002)  
COSEM classes tested:          1,3,4,5,7(1),8,9,11,15(1),17,19(1),20,23(1)  
                               27(1),29(2),41,42,43,45,47,70,115  
COSEM classes found but not tested: (none)
```

# Certification No. 1897

## 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 = "\NINGXIA LGG INSTRUMENT CO.,LTD."
  FLAGid = "\LGG"
  Type = "\LGG360K"
  SerialNr = "\0159000000020"
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC		All (MODE_E)				
APPL	57	0	19	0	38	0
COSEM	2555	0	2	72	2481	0
SYMSEC		All (No ciphered association with the required properties)				
PUBSEC		All (No ciphered association with the required properties)				

```
Communication profile:          HDLC
Application context names:      LONG_NAMES
Authentication mechanisms:      NO_SECURITY,LOW_LEVEL_SECURITY
ACSE and xDLMS features:       GET,SERVICE_SPECIFIC_BLOCK_TRANSFER,SET
Security features:              (not collected)
Data protection features:       (not collected)
Logical device(s) found:       SAP = 1 is "4C4747313031303730303030303032"
(LGG1010700000002)
COSEM classes tested:           1,3,4,5,7(1),8,9,11,15(1),17,19(1),20,23(1)
                                27(1),29(2),41,42,43,45,47,70,115
COSEM classes found but not tested: (none)
```

# Certification No. 1897

## 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 = "\NINGXIA LGG INSTRUMENT CO.,LTD."  
  FLAGid = "\LGG"  
  Type = "\LGG360K"  
  SerialNr = "\0159000000020"  
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC		All (Communication profile not HDLC)				
APPL	57	0	18	0	39	0
COSEM	2555	0	2	72	2481	0
SYMSEC		All (No ciphered association with the required properties)				
PUBSEC		All (No ciphered association with the required properties)				

```
Communication profile:          TCP  
Application context names:     LONG_NAMES  
Authentication mechanisms:     NO_SECURITY,LOW_LEVEL_SECURITY  
ACSE and xDLMS features:      GET,RLRQ_RLRE  
                               SERVICE_SPECIFIC_BLOCK_TRANSFER,SET  
Security features:             (not collected)  
Data protection features:      (not collected)  
Logical device(s) found:      SAP = 1 is "4C4747313031303730303030303032"  
(LGG1010700000002)  
COSEM classes tested:         1,3,4,5,7(1),8,9,11,15(1),17,19(1),20,23(1)  
                               27(1),29(2),41,42,43,45,47,70,115  
COSEM classes found but not tested: (none)
```