

Certification No. 2055

This is to certify that the metering equipment identified as:

Type: LGG360TS

Mgmt. SAP = 1 is "4C4747313031303730303030303035" (LGG1010700000005)

Manufactured by: NINGXIA LGG INSTRUMENT 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: 20170909_NINGXIA_LGG_INSTRUMENT_CO_LTD_Hangzhou_China (2017-09-09)
- 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	-	25-DEC-2018 14:17:39	99A30C68E4DF9831BA3B4FA62A48707960 DF07691F78F7670B62BBA3E18F82ED
Test 2	HDLC, MODE_E			25-DEC-2018 14:34:26	8CB4B897D2800149FFC03395B2D6043C56 FCB920C9D68E47F586D499F0D25F06
Test 3	TCP			25-DEC-2018 12:03:52	03227CF936ACC502B3B8FEF882C6464517 CFBE9792B971B5269011EBD0F7B8FE

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 3rd January 2019



Gyöző Kmethy
President

Certification No. 2055

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 = "\LGG360TS"  
  SerialNr = "\0159000000053"  
}
```

* Summary *

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC	36	0	1	0	35	0
APPL	57	0	19	0	38	0
COSEM	3691	0	2	545	3144	0
SYMSEC		All (No ciphered association with the required properties)				
PUBSEC		All (No ciphered association with the required properties)				
DP	0	0	0	0	0	0
GBT		All (No 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 "4C4747313031303730303030303035"
(LGG1010700000005)

Active firmware(s):
Id=LGG360TS.002 V=NGLG360TS02FW6351[10]100V1.02
S=48D879E4

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. 2055

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 = "\LGG360TS"  
  SerialNr = "\0159000000053"  
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC		All (MODE_E)				
APPL	57	0	19	0	38	0
COSEM	3691	0	2	545	3144	0
SYMSEC		All (No ciphered association with the required properties)				
PUBSEC		All (No ciphered association with the required properties)				
DP	0	0	0	0	0	0
GBT		All (No 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 "4C4747313031303730303030303035"  
(LGG1010700000005)  
Active firmware(s):           Id=LGG360TS.002 V=NGLG360TS02FW6351[10]100V1.02  
S=48D879E4  
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. 2055

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 = "\LGG360TS"  
  SerialNr = "\0159000000053"  
}
```

* Summary *

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC		All (Communication profile not HDLC)				
APPL	57	0	18	0	39	0
COSEM	3691	0	2	545	3144	0
SYMSEC		All (No ciphered association with the required properties)				
PUBSEC		All (No ciphered association with the required properties)				
DP	0	0	0	0	0	0
GBT		All (No 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 "4C4747313031303730303030303035"
(LGG1010700000005)

Active firmware(s): Id=LGG360TS.002 V=NGLG360TS02FW6351[10]100V1.02
S=48D879E4

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)