

Certification No. 2077

This is to certify that the metering equipment identified as:

Type: LGG780 Active firmware Id=LGG780.001 V=NGLG7800101FW6351[10]100V1.00 S=5CC20825
Mgmt. SAP = 1 is "4C4747313031303730303030303038" (LGG1010700000008)
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	–	10-FEB-2019 16:11:27	F1463239326F72080070AA3CD6A1D3947 6B1150117C35F213C9FD3421BC63ACF
Test 2	HDLC, MODE_E	LONG_NAMES	–	10-FEB-2019 16:40:39	516D64B308C24C8174F3E8A7373057A99 C6BBF1326871E2C3C5D355487E94584
Test 3	TCP	LONG_NAMES	–	10-FEB-2019 15:36:06	5FAEB7F1192D89C39B3CD6AEB1189F6 F4A51DE09747686FDF7845EBA74E762

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 11th February 2019



Gyöző Kmethy
President

Certification No. 2077

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 = "\LGG780"  
  SerialNr = "\190100000008"  
}
```

* Summary *

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC	36	0	1	0	35	0
APPL	57	0	19	0	38	0
COSEM	3455	0	2	503	2950	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 "4C4747313031303730303030303038"
(LGG1010700000008)

Active firmware(s):
Id=LGG780.001 V=NGLG7800101FW6351[10]100V1.00
S=5CC20825

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

COSEM classes found but not tested: (none)

Certification No. 2077

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 = "\LGG780"  
  SerialNr = "\190100000008"  
}
```

* Summary *

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC		All (MODE_E)				
APPL	57	0	19	0	38	0
COSEM	3455	0	2	503	2950	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 "4C474731303130373030303030303038"
(LGG1010700000008)

Active firmware(s):
Id=LGG780.001 V=NGLG7800101FW6351[10]100V1.00
S=5CC20825

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

COSEM classes found but not tested: (none)

Certification No. 2077

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 = "\LGG780"  
  SerialNr = "\190100000008"  
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC		All (Communication profile not HDLC)				
APPL	57	0	18	0	39	0
COSEM	3455	0	2	503	2950	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 "4C474731303130373030303030303038"
(LGG1010700000008)

Active firmware(s): Id=LGG780.001 V=NGLG7800101FW6351[10]100V1.00
S=5CC20825

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

COSEM classes found but not tested: (none)