

## Certification No. 2170

This is to certify that the metering equipment identified as:

**Type: Landis+Gyr E570 S2 ZxY405CQUx\_V83.07.07**

**Mgmt. SAP = 1 is "4C475A31303330373433363439353137" (LGZ1030743649517)**

**Manufactured by: Landis+Gyr**

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

- CTT version: CTT 3.0 standard edition, 64bits (109)
- Licensed to: Landis+Gyr (11.07.2005)
- 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 RS485	HDLC, DIRECT_HDLC	LONG_NAMES, LONG_NAMES_ WITH_	ACTIVATE_SECURITY_ POLICY, KEY_TRANSFER SERVICE_SPECIFIC_DED_ CIPHERING SERVICE_SPECIFIC_GLO_ CIPHERING	09-AUG-2019 09:39:05	303A0B1C680656572A2ECE0CC70B117CD 76FBC5FE39FEC727A93BB5EB3807D9C
Test 2 optical	HDLC, DIRECT_HDLC	CIPHERING		09-AUG-2019 07:21:12	BBEC78934002EA4F7D08A3A8C97A3E0E7 20E39BEE77EF11006781D1D7D26802F
Test 3 RS485	HDLC, DIRECT_HDLC	SHORT_NAMES, SHORT_NAMES_ WITH_		09-AUG-2019 08:41:29	4EA4ED32303676E3F45D238AF6D5A4A4E 73C8DE15A9EC229D8A5C897FED21F6C
Test 4 optical	HDLC, DIRECT_HDLC	CIPHERING		09-AUG-2019 08:00:41	6C9944EDCC0CE69713B415C18A28454AB DA3EF1417998C9C8B4AE927E7A58075

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 14<sup>th</sup> August 2019

*Gyöző Kmethy*

Gyöző Kmethy  
President

*Viktória Varjú Timárné*

Viktória Varjú Timárné  
Certification Engineer

The DLMS UA is a not for profit Association in conformance with Art. 60ff of the Swiss Civil Code.

Commercial registration number CHE-440.972.101

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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 = "\Landis+Gyr"
  FLAGid = "\LGZ"
  Type = "\Landis+Gyr E570 S2 Zxy405CQUx_v83.07.07"
  IUTIsModule = FALSE
  SerialNr = "\43649517"
  Comment = "\GRD Devices"
  Comment = "\Test and Validation, Zug"
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC	36	0	3	0	33	0
APPL	90	0	16	0	74	0
COSEM	7306	0	33	135	7138	0
SYMSEC	97	0	12	0	85	0

Communication profile: HDLC

Application context names: LONG\_NAMES, LONG\_NAMES\_WITH\_CIPHERING

Security mechanisms: NO\_SECURITY, LOW\_LEVEL\_SECURITY  
HIGH\_LEVEL\_SECURITY\_SHA1  
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, KEY\_TRANSFER  
SERVICE\_SPECIFIC\_DED\_CIPHERING  
SERVICE\_SPECIFIC\_GLO\_CIPHERING

Logical device(s) found: SAP = 1 is "4C475A31303330373433363439353137"  
(LGZ1030743649517)

COSEM classes tested: 1, 3, 4, 5, 6, 7 (1), 8, 9, 11, 12 (3), 15 (2), 17, 18, 20  
21, 22, 23 (1), 29 (2), 40, 41, 43, 48, 64, 70, 71  
72 (1), 74, 90 (1), 91 (1), 92 (1)

COSEM classes found but not tested: (none)

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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 = "\Landis+Gyr"  
  FLAGid = "\LGZ"  
  Type = "\Landis+Gyr E570 S2 Zxy405CQUx_v83.07.07"  
  IUTIsModule = FALSE  
  SerialNr = "\43649517"  
  Comment = "\GRD Devices"  
  Comment = "\Test and Validation, Zug"  
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC	36	0	3	0	33	0
APPL	90	0	16	0	74	0
COSEM	7306	0	33	135	7138	0
SYMSEC	97	0	12	0	85	0

Communication profile: HDLC

Application context names: LONG\_NAMES, LONG\_NAMES\_WITH\_CIPHERING

Security mechanisms: NO\_SECURITY, LOW\_LEVEL\_SECURITY  
HIGH\_LEVEL\_SECURITY\_SHA1  
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, KEY\_TRANSFER  
SERVICE\_SPECIFIC\_DED\_CIPHERING  
SERVICE\_SPECIFIC\_GLO\_CIPHERING

Logical device(s) found: SAP = 1 is "4C475A31303330373433363439353137"  
(LGZ1030743649517)

COSEM classes tested: 1, 3, 4, 5, 6, 7 (1), 8, 9, 11, 12 (3), 15 (2), 17, 18, 20  
21, 22, 23 (1), 29 (2), 40, 41, 43, 48, 64, 70, 71  
72 (1), 74, 90 (1), 91 (1), 92 (1)

COSEM classes found but not tested: (none)

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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 = "\Landis+Gyr"
  FLAGid = "\LGZ"
  Type = "\Landis+Gyr E570 S2 Zxy405CQUx_v83.07.07"
  IUTIsModule = FALSE
  SerialNr = "\43649517"
  Comment = "\GRD Devices"
  Comment = "\Test and Validation, Zug"
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC	36	0	3	0	33	0
APPL	88	0	16	0	72	0
COSEM	7286	0	33	135	7118	0
SYMSEC	97	0	12	0	85	0

Communication profile: HDLC

Application context names: SHORT\_NAMES,SHORT\_NAMES\_WITH\_CIPHERING

Security mechanisms: NO\_SECURITY,LOW\_LEVEL\_SECURITY  
HIGH\_LEVEL\_SECURITY\_SHA1  
HIGH\_LEVEL\_SECURITY\_GMAC

ACSE and xDLMS features: MULTIPLE\_REFERENCES,READ,RLRQ\_RLRE  
SELECTIVE\_ACCESS  
SERVICE\_SPECIFIC\_BLOCK\_TRANSFER,WRITE

Security features: ACTIVATE\_SECURITY\_POLICY,KEY\_TRANSFER  
SERVICE\_SPECIFIC\_DED\_CIPHERING  
SERVICE\_SPECIFIC\_GLO\_CIPHERING

Logical device(s) found: SAP = 1 is "4C475A31303330373433363439353137"  
(LGZ1030743649517)

COSEM classes tested: 1,3,4,5,6,7(1),8,9,11,12(3),15(2),17,18,20  
21,22,23(1),29(2),40,41,43,48,64,70,71  
72(1),74,90(1),91(1),92(1)

COSEM classes found but not tested: (none)

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## Summary of features tested for Test 4

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 = "\Landis+Gyr"  
  FLAGid = "\LGZ"  
  Type = "\Landis+Gyr E570 S2 Zxy405CQUx_v83.07.07"  
  IUTIsModule = FALSE  
  SerialNr = "\43649517"  
  Comment = "\GRD Devices"  
  Comment = "\Test and Validation, Zug"  
}
```

\*\*\*\*\*  
\* Summary \*  
\*\*\*\*\*

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC	36	0	3	0	33	0
APPL	88	0	16	0	72	0
COSEM	7286	0	33	135	7118	0
SYMSEC	97	0	12	0	85	0

Communication profile: HDLC

Application context names: SHORT\_NAMES,SHORT\_NAMES\_WITH\_CIPHERING

Security mechanisms: NO\_SECURITY,LOW\_LEVEL\_SECURITY  
HIGH\_LEVEL\_SECURITY\_SHA1  
HIGH\_LEVEL\_SECURITY\_GMAC

ACSE and xDLMS features: MULTIPLE\_REFERENCES,READ,RLRQ\_RLRE  
SELECTIVE\_ACCESS  
SERVICE\_SPECIFIC\_BLOCK\_TRANSFER,WRITE

Security features: ACTIVATE\_SECURITY\_POLICY,KEY\_TRANSFER  
SERVICE\_SPECIFIC\_DED\_CIPHERING  
SERVICE\_SPECIFIC\_GLO\_CIPHERING

Logical device(s) found: SAP = 1 is "4C475A31303330373433363439353137"  
(LGZ1030743649517)

COSEM classes tested: 1,3,4,5,6,7(1),8,9,11,12(3),15(2),17,18,20  
21,22,23(1),29(2),40,41,43,48,64,70,71  
72(1),74,90(1),91(1),92(1)

COSEM classes found but not tested: (none)