

## Certification No. 2096

This is to certify that the metering equipment identified as:

**Type: Landis+Gyr E570 S2 ZxY405CW1Ux\_V84.06.06**

**Mgmt. SAP = 1 is "4C475A31303330373433363439353230" (LGZ1030743649520)**

**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 optical	HDLC, DIRECT_HDLC	LONG_NAMES, LONG_NAMES_ WITH_ CIPHERING	ACTIVATE_SECURITY_ POLICY, KEY_TRANSFER SERVICE_SPECIFIC_ DED_CIPHERING SERVICE_SPECIFIC_ GLO_CIPHERING	08-APR-2019 11:20:33	DEB95F2CE470E1BC0ACF34EE4A6A0B0E 4CB2B11705AF07EE6330306DD2EDF9A9
Test 2 RS485	HDLC, DIRECT_HDLC			08-APR-2019 12:29:14	2C634BB93312FAE1535B12A217C15EFA1 ACFD8F339FEF4D834AB578A17439F06
Test TCP	TCP			28-MAR-2019 14:26:19	29098DACFAB20C80AFB9A6A03E713FD6 2C47C89F44918AB087A588EE216EA05F
Test 4 optical	HDLC, DIRECT_HDLC	SHORT_NAMES SHORT_NAMES_ WITH_ CIPHERING		26-MAR-2019 12:14:49	532626C82A5CBBDD6CED433A449065B5C6 53DFDB3E249C24057A2B10E228870E9
Test 5 RS485	HDLC, DIRECT_HDLC			27-MAR-2019 07:30:26	F790A474E6737342645891A4B24D243D599 480543209A61465F3C581E975637F
Test 6 TCP	TCP			28-MAR-2019 13:13:54	449A4ED1F76518045AD06CB75740CD6236 A489123489A706B4261BB6B4464B14

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).

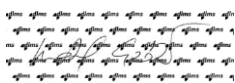
With this, the manufacturer is entitled to display the DLMS/COSEM Compliant mark – shown below – on its product duly identified and on its product literature.



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 8<sup>th</sup> April 2019



Győző Kmethy  
President

# Certification No. 2096

## 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 Zxy405CW1Ux_V84.06.06"  
  IUTIsModule = FALSE  
  SerialNr = "\43649520"  
  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	7237	0	36	147	7054	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 "4C475A31303330373433363439353230"  
(LGZ1030743649520)

COSEM classes tested: 1, 3, 4, 5, 6, 7 (1), 8, 9, 11, 12 (3), 15 (2), 17, 18, 20  
21, 22, 23 (1), 27 (1), 28 (2), 29 (2), 40, 41, 42, 44  
45, 64, 70, 71, 72 (1), 74

COSEM classes found but not tested: 100

# Certification No. 2096

## 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 ZxY405CW1Ux_V84.06.06"
  IUTIsModule = FALSE
  SerialNr = "\43649520"
  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	7237	0	36	147	7054	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 "4C475A31303330373433363439353230"  
(LGZ1030743649520)

COSEM classes tested: 1, 3, 4, 5, 6, 7 (1), 8, 9, 11, 12 (3), 15 (2), 17, 18, 20  
21, 22, 23 (1), 27 (1), 28 (2), 29 (2), 40, 41, 42, 44  
45, 64, 70, 71, 72 (1), 74

COSEM classes found but not tested: 100

# Certification No. 2096

## 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 ZxY405CW1Ux_V84.06.06"  
  IUTIsModule = FALSE  
  SerialNr = "\43649520"  
  Comment = "\GRD Devices"  
  Comment = "\Test and Validation, Zug"  
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC		All(Communication profile not HDLC)				
APPL	90	0	16	0	74	0
COSEM	7273	0	12	147	7114	0
SYMSEC	97	0	12	0	85	0

Communication profile: TCP

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, DATA\_NOTIFICATION, GET  
MULTIPLE\_REFERENCES, RLRQ\_RLRE  
SELECTIVE\_ACCESS  
SERVICE\_SPECIFIC\_BLOCK\_TRANSFER, SET

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

Logical device(s) found: SAP = 1 is "4C475A31303330373433363439353230"  
(LGZ1030743649520)

COSEM classes tested: 1, 3, 4, 5, 6, 7(1), 8, 9, 11, 12(3), 15(2), 17, 18, 20  
21, 22, 23(1), 27(1), 28(2), 29(2), 40, 41, 42, 44  
45, 64, 70, 71, 72(1), 74

COSEM classes found but not tested: 100

# Certification No. 2096

## 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 Zxy405CW1Ux_V84.06.06"
  IUTIsModule = FALSE
  SerialNr = "\43649520"
  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	7205	0	36	150	7019	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 "4C475A31303330373433363439353230"  
(LGZ1030743649520)

COSEM classes tested: 1,3,4,5,6,7(1),8,9,11,12(3),15(2),17,18,20  
21,22,23(1),27(1),28(2),29(2),40,41,42,44  
45,64,70,71,72(1),74

COSEM classes found but not tested: 100

# Certification No. 2096

## Summary of features tested for Test 5

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 Zxy405CW1Ux_V84.06.06"  
  IUTIsModule = FALSE  
  SerialNr = "\43649520"  
  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	7205	0	36	150	7019	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 "4C475A31303330373433363439353230"  
(LGZ1030743649520)

COSEM classes tested: 1,3,4,5,6,7(1),8,9,11,12(3),15(2),17,18,20  
21,22,23(1),27(1),28(2),29(2),40,41,42,44  
45,64,70,71,72(1),74

COSEM classes found but not tested: 100

# Certification No. 2096

## Summary of features tested for Test 6

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 ZxY405CW1Ux_V84.06.06"
  IUTIsModule = FALSE
  SerialNr = "\43649520"
  Comment = "\GRD Devices"
  Comment = "\Test and Validation, Zug"
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC		All(Communication profile not HDLC)				
APPL	88	0	16	0	72	0
COSEM	7253	0	12	147	7094	0
SYMSEC	97	0	12	0	85	0

Communication profile: TCP

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: DATA\_NOTIFICATION,MULTIPLE\_REFERENCES,READ  
RLRQ\_RLRE,SELECTIVE\_ACCESS  
SERVICE\_SPECIFIC\_BLOCK\_TRANSFER,WRITE

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

Logical device(s) found: SAP = 1 is "4C475A31303330373433363439353230"  
(LGZ1030743649520)

COSEM classes tested: 1,3,4,5,6,7(1),8,9,11,12(3),15(2),17,18,20  
21,22,23(1),27(1),28(2),29(2),40,41,42,44  
45,64,70,71,72(1),74

COSEM classes found but not tested: 100