

Certification No. 2536	Applicant: Holley Issued to: Holley
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On the request of the applicant the DLMS UA certifies hereby that the product identified below has successfully passed the DLMS/COSEM Conformance tests under the following conditions:

Product	Type	DTSD545-CTVT Id=HLYVTV1-20200921 V=1			
	Active firmware ID	Id=HLYVTV1-20200921 V=1			
	Management LDN (SAP = 1)	" 484C5932303230353030303030303036" (HLY2020500000006)			
	Manufacturer	Holley Technology LTD			
Test tool	CTT version	CTT 3.1 extended edition, release 108, update 2			
	Licensed to	20180824_Holley_Technology_China (2018/8/24)			
	COSEM object definitions	Object_defs_v3.6_Released_20200825.dat			
	Media Identifiers	Abstract, Electricity			
Test	Communication profile	Application contexts	Security features	Date and time	Test Result hash value
1	HDLC	LONG_NAMES, LONG_NAMES_ WITH_CIPHERING	SERVICE_SPECIFIC_GLO_ CIPHERING, SUITE_0 KEY_TRANSFER	01-APR-2021 13:20:40	83B8C81F82242035DE93A89F1C6661F3E 85BD15ADCD576409D21F1B9F5B4C02E
2	HDLC, MODE_E			02-APR-2021 08:04:36	70D3BC6496CDF341516EB0FF457E42609 A1D94320EDDA1A2F8E58207987E0B17
3	TCP			12-APR-2021 15:22:18	F5BF5CD669846D77B466AA81C1D2C5BA A6C578BE5E7ED77D810C79D51BA64964
4	HDLC	LONG_NAMES	(not collected)	01-APR-2021 16:12:16	801835F1F9CCB5A81A70A54323763B38 DF6355874F1429ECDB23B2823D42FBB8
5	HDLC, MODE_E			01-APR-2021 18:40:14	09C10F331342CCDC6CB23D16B926C1CE 0901D99742E0B14B3CB743EF6F909098
6	TCP			12-APR-2021 13:36:20	CCFCDC00825FC94B7D8B14AFA61160AD 52477F46D35AC36913D01EAFCAE44369
This DTSD545-CTVT meter has already been certified as Certification No. 2307 tested at 11 th March 2020.					
The test reports are filed by the DLMS UA. Copies are available from the manufacturer.					

The authenticity and correctness of the test report(s) submitted have been verified by the DLMS UA. With this, the applicant / manufacturer is entitled to claim that its product is compliant to the DLMS/COSEM specification and is entitled to display the DLMS/COSEM Compliant mark on the product and in its product literature. The product identified above is listed at: <https://www.dlms.com>.



This Certification is valid for the functions successfully tested and summarized below. The tests have been executed on one specimen of the product, as identified by the Management LDN reported. Results may not be applicable for other test specimens.

Date: Sursee, the 14th April 2021



Sergio Lazzarotto
Executive Director and President



Viktória Varju
Certification Engineer

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 = {
  Applicant = "\Holley"
  Manufacturer = "\Holley Technology LTD"
  FLAGid = "\HLY"
  Type = "\DTSD545-CTVT"
  ConfigurationId = "0000000000000001"
  SerialNr = "00000006"
  Comment = "\FOR GBCS COSEM TEST"
  Comment = "\NO"
}
```

* Summary *

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC	34	0	1	0	33	0
APPL	98	0	20	0	78	0
SecMsg	26	0	8	0	18	0
COSEM	24190	0	145	3887	20158	0
SymKey	51	0	12	0	39	0
DP	0	0	0	0	0	0
GBT		All (No association with the required properties)				
PubCert		All (No ciphered association with the required properties)				
SecPol	8	0	8	0	0	0

```
Communication profile:          HDLC

Application context names:     LONG_NAMES, LONG_NAMES_WITH_CIPHERING

Authentication mechanisms:     NO_SECURITY, HIGH_LEVEL_SECURITY_GMAC

ACSE and xDLMS features:      ACTION, GET, SERVICE_SPECIFIC_BLOCK_TRANSFER
                               SET

Security features:             SERVICE_SPECIFIC_GLO_CIPHERING, SUITE_0
                               KEY_TRANSFER

Data protection features:      (not collected)

Logical device(s) found:       SAP = 1 is "484C59323032303530303030303036" (HLY202050000006)

Active firmware(s):           Id=HLYVTV1-20200921 V=1

COSEM classes tested:          1, 3, 4, 5, 6, 7(1), 8, 9, 11, 15(1), 17, 18, 19(1), 20
                               22, 23(1), 29(1), 30, 40, 41, 42, 44, 45, 48, 64, 70

COSEM classes found but not tested: (none)
```

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 = {
  Applicant = "\Holley"
  Manufacturer = "\Holley Technology LTD"
  FLAGid = "\HLY"
  Type = "\DTSD545-CTVT"
  ConfigurationId = "0000000000000001"
  SerialNr = "00000006"
  Comment = "\FOR GBCS COSEM TEST"
  Comment = "\NO"
}
```

* Summary *

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
HDLC		All (MODE_E)				
APPL	98	0	20	0	78	0
SecMsg	26	0	8	0	18	0
COSEM	24190	0	145	3887	20158	0
SymKey	51	0	12	0	39	0
DP	0	0	0	0	0	0
GBT		All (No association with the required properties)				
PubCert		All (No ciphered association with the required properties)				
SecPol	8	0	8	0	0	0

```
Communication profile:          HDLC

Application context names:     LONG_NAMES, LONG_NAMES_WITH_CIPHERING

Authentication mechanisms:     NO_SECURITY, HIGH_LEVEL_SECURITY_GMAC

ACSE and xDLMS features:      ACTION, GET, SERVICE_SPECIFIC_BLOCK_TRANSFER
                               SET

Security features:             SERVICE_SPECIFIC_GLO_CIPHERING, SUITE_0
                               KEY_TRANSFER

Data protection features:      (not collected)

Logical device(s) found:       SAP = 1 is "484C59323032303530303030303036" (HLY2020500000006)

Active firmware(s):           Id=HLYVTV1-20200921 V=1

COSEM classes tested:          1, 3, 4, 5, 6, 7(1), 8, 9, 11, 15(1), 17, 18, 19(1), 20
                               22, 23(1), 29(1), 30, 40, 41, 42, 44, 45, 48, 64, 70

COSEM classes found but not tested: (none)
```

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 = {
  Applicant = "\Holley"
  Manufacturer = "\Holley Technology LTD"
  FLAGid = "\HLY"
  Type = "\DTSD545-CTVT"
  ConfigurationId = "0000000000000001"
  SerialNr = "00000006"
  Comment = "\FOR GBCS COSEM TEST"
  Comment = "\NO"
}
```

* Summary *

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
HDLC		All (Communication profile not HDLC)				
APPL	113	0	22	0	91	0
SecMsg	26	0	8	0	18	0
COSEM	24190	0	145	3887	20158	0
SymKey	51	0	12	0	39	0
DP	0	0	0	0	0	0
GBT		All (No association with the required properties)				
PubCert		All (No ciphered association with the required properties)				
SecPol	8	0	8	0	0	0

```
Communication profile:          TCP
Application context names:      LONG_NAMES, LONG_NAMES_WITH_CIPHERING
Authentication mechanisms:      NO_SECURITY, HIGH_LEVEL_SECURITY_GMAC
ACSE and xDLMS features:       ACTION, GET, RLRQ_RLRE
                                 SERVICE_SPECIFIC_BLOCK_TRANSFER, SET
Security features:              SERVICE_SPECIFIC_GLO_CIPHERING, SUITE_0
                                 KEY_TRANSFER
Data protection features:       (not collected)
Logical device(s) found:        SAP = 1 is "484C59323032303530303030303036" (HLY202050000006)
Active firmware(s):             Id=HLYVTV1-20200921 V=1
COSEM classes tested:           1, 3, 4, 5, 6, 7(1), 8, 9, 11, 15(1), 17, 18, 19(1), 20
                                 22, 23(1), 29(1), 30, 40, 41, 42, 44, 45, 48, 64, 70
COSEM classes found but not tested: (none)
```

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 = {
  Applicant = "\Holley"
  Manufacturer = "\Holley Technology LTD"
  FLAGid = "\HLY"
  Type = "\DTSD545-CTVT"
  ConfigurationId = "0000000000000001"
  SerialNr = "00000006"
  Comment = "\FOR GBCS COSEM TEST"
  Comment = "\NO"
}
```

* Summary *

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
HDLC	34	0	1	0	33	0
APPL	94	0	28	0	66	0
SecMsg		All (No ciphered association with the required properties)				
COSEM	24190	0	145	3887	20158	0
SymKey		All (No ciphered association with the required properties)				
DP	0	0	0	0	0	0
GBT		All (No association with the required properties)				
PubCert		All (No ciphered association with the required properties)				
SecPol		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 "484C59323032303530303030303036" (HLY2020500000006)
Active firmware(s):           Id=HLYVTV1-20200921 V=1
COSEM classes tested:         1,3,4,5,6,7(1),8,9,11,15(1),17,18,19(1),20
                               22,23(1),29(1),30,40,41,42,44,45,48,64,70
COSEM classes found but not tested: (none)
```

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 = {
  Applicant = "\Holley"
  Manufacturer = "\Holley Technology LTD"
  FLAGid = "\HLY"
  Type = "\DTSD545-CTVT"
  ConfigurationId = "0000000000000001"
  SerialNr = "00000006"
  Comment = "\FOR GBCS COSEM TEST"
  Comment = "\NO"
}
```

* Summary *

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
HDLC		All (MODE_E)				
APPL	94	0	28	0	66	0
SecMsg		All (No ciphered association with the required properties)				
COSEM	24190	0	145	3887	20158	0
SymKey		All (No ciphered association with the required properties)				
DP	0	0	0	0	0	0
GBT		All (No association with the required properties)				
PubCert		All (No ciphered association with the required properties)				
SecPol		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 "484C59323032303530303030303036" (HLY2020500000006)
Active firmware(s):           Id=HLYVTV1-20200921 V=1
COSEM classes tested:         1,3,4,5,6,7(1),8,9,11,15(1),17,18,19(1),20
                               22,23(1),29(1),30,40,41,42,44,45,48,64,70
COSEM classes found but not tested: (none)
```

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 = {
  Applicant = "\Holley"
  Manufacturer = "\Holley Technology LTD"
  FLAGid = "\HLY"
  Type = "\DTSD545-CTVT"
  ConfigurationId = "0000000000000001"
  SerialNr = "00000006"
  Comment = "\FOR GBCS COSEM TEST"
  Comment = "\NO"
}
```

* Summary *

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
HDLC		All (Communication profile not HDLC)				
APPL	94	0	27	0	67	0
SecMsg		All (No ciphered association with the required properties)				
COSEM	24190	0	145	3887	20158	0
SymKey		All (No ciphered association with the required properties)				
DP	0	0	0	0	0	0
GBT		All (No association with the required properties)				
PubCert		All (No ciphered association with the required properties)				
SecPol		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 "484C59323032303530303030303036" (HLY2020500000006)
Active firmware(s):             Id=HLYVTV1-20200921 V=1
COSEM classes tested:           1, 3, 4, 5, 6, 7 (1), 8, 9, 11, 15 (1), 17, 18, 19 (1), 20
                                22, 23 (1), 29 (1), 30, 40, 41, 42, 44, 45, 48, 64, 70
COSEM classes found but not tested: (none)
```