

Certification No. 2110

This is to certify that the metering equipment identified as:

Type: DTSD545-WC100 Active firmware(s): Id=02 V=00020A1A
Mgmt. SAP = 1 is "484C5930303130333230313930343234" (HLY0010320190424)
Manufactured by: Holley Technology LTD

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

- CTT version: CTT 3.1 extended edition, 64bits, release 107
- Licensed to: 20180824_Holley_Technology_China (2018/8/24)
- 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, LONG_NAMES_ WITH_ CIPHERING	SERVICE_SPECIFIC _GLO_CIPHERING, SUITE_0 SECURITY_ ACTIVATE, KEY_TRANSFER	15-MAY-2019 11:36:58	40EA8316CD458AF40D79F804481EE3514D 809E50168D7736412D146E3927D173
Test 2	HDLC, MODE_E			15-MAY-2019 13:12:18	ABCE1198A5423F03F7ADFA0AD04DF8AA FFCB53B0B4335E05AFFE494353AC5DD3
Test 3	TCP			15-MAY-2019 10:37:22	4A840CC6BB3BCCA4B7918E104C90F1E4E 848FBE58099B67A62C10FD5E0A5743B

This DTSD545-WC100 meter type has already been certified as Certification No. 1928 and No. 2076 tested with HDLC.

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 15th May 2019

Gyöző Kmethy
President

Viktória Varjú Timárné
Certification Engineer

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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 = "\Holley Technology LTD"  
  FLAGid = "\HLY"  
  Type = "\DTSD545-WC100"  
  ConfigurationId = "0000000000000001"  
  SerialNr = "000020190424"  
  Comment = "\FOR GBCS COSEM TEST"  
  Comment = "\NO"  
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC	36	0	1	0	35	0
APPL	77	0	21	0	56	0
COSEM	375	0	0	78	297	0
SYMSEC	42	0	9	0	33	0
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, LONG_NAMES_WITH_CIPHERING

Authentication mechanisms: NO_SECURITY, LOW_LEVEL_SECURITY
HIGH_LEVEL_SECURITY_GMAC

ACSE and xDLMS features: ACTION, GET, MULTIPLE_REFERENCES
SERVICE_SPECIFIC_BLOCK_TRANSFER, SET

Security features: SERVICE_SPECIFIC_GLO_CIPHERING, SUITE_0
SECURITY_ACTIVATE, KEY_TRANSFER

Data protection features: (not collected)

Logical device(s) found: SAP = 1 is "484C5930303130333230313930343234"
(HLY0010320190424)

Active firmware(s): Id=02 V=00020A1A

COSEM classes tested: 1, 3, 4, 7(1), 8, 15(3), 20, 23, 41, 42, 45, 64(1), 70

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 = "\Holley Technology LTD"  
  FLAGid = "\HLY"  
  Type = "\DTSD545-WC100"  
  ConfigurationId = "0000000000000001"  
  SerialNr = "000020190424"  
  Comment = "\FOR GBCS COSEM TEST"  
  Comment = "\NO"  
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC		All (MODE_E)				
APPL	77	0	21	0	56	0
COSEM	375	0	0	78	297	0
SYMSEC	42	0	9	0	33	0
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, LONG_NAMES_WITH_CIPHERING

Authentication mechanisms: NO_SECURITY, LOW_LEVEL_SECURITY
HIGH_LEVEL_SECURITY_GMAC

ACSE and xDLMS features: ACTION, GET, MULTIPLE_REFERENCES
SERVICE_SPECIFIC_BLOCK_TRANSFER, SET

Security features: SERVICE_SPECIFIC_GLO_CIPHERING, SUITE_0
SECURITY_ACTIVATE, KEY_TRANSFER

Data protection features: (not collected)

Logical device(s) found: SAP = 1 is "484C5930303130333230313930343234"
(HLY0010320190424)

Active firmware(s): Id=02 V=00020A1A

COSEM classes tested: 1, 3, 4, 7(1), 8, 15(3), 20, 23, 41, 42, 45, 64(1), 70

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 = "\Holley Technology LTD"  
  FLAGid = "\HLY"  
  Type = "\DTSD545-WC100"  
  ConfigurationId = "0000000000000001"  
  SerialNr = "000020190424"  
  Comment = "\FOR GBCS COSEM TEST"  
  Comment = "\NO"  
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC		All (Communication profile not HDLC)				
APPL	77	0	20	0	57	0
COSEM	375	0	0	78	297	0
SYMSEC	45	0	9	0	36	0
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, LONG_NAMES_WITH_CIPHERING  
Authentication mechanisms:      NO_SECURITY, LOW_LEVEL_SECURITY  
                                HIGH_LEVEL_SECURITY_GMAC  
ACSE and xDLMS features:       ACTION, GET, MULTIPLE_REFERENCES, RLRQ_RLRE  
                                SERVICE_SPECIFIC_BLOCK_TRANSFER, SET  
Security features:              SERVICE_SPECIFIC_GLO_CIPHERING, SUITE_0  
                                SECURITY_ACTIVATE, KEY_TRANSFER  
Data protection features:       (not collected)  
Logical device(s) found:       SAP = 1 is "484C5930303130333230313930343234"  
(HLY0010320190424)  
Active firmware(s):             Id=02 V=00020A1A  
COSEM classes tested:           1, 3, 4, 7(1), 8, 15(3), 20, 23, 41, 42, 45, 64(1), 70  
COSEM classes found but not tested: (none)
```