

Certification No. 2305

This is to certify that the metering equipment identified as:

**Type: DTSD545-WC100 Active firmware(s): Id=CTT V1.0.0, V=11.00.00.02 S=0 V= S=0D760D76
Id=HMS3XX25122G5G00000000191204110**

Mgmt. SAP = 1 is "484C5930303330330323030333031" (HLY0030300200301)

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_ DED_CIPHERING	10-MAR-2020 13:29:46	7ECA90F1EB0736E62A3299EEBE0B175E 7158CC97BF4385F959D515E6FEFBA2CB
Test 2	HDLC, MODE_E		SERVICE_SPECIFIC_ GLO_CIPHERING, SUITE_0	10-MAR-2020 14:51:57	62725B067A5DAD99652D7AFAEFB3F443 A8E5A8BA6F306BEF772B0E4463D8A439
Test 3	TCP		SECURITY_ACTIVATE KEY_TRANSFER	11-MAR-2020 09:59:38	946BC8D57067A0D3F6B3557A3BEADDA ED8DE8377EC716D142F3823A8A3329882

This DTSD545-WC100 meter type has already been certified as Certification No. 2110, No. 1928 and No. 2076.

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 12th March 2020



Sergio Lazzarotto
Executive Director and President



Gyöző Kmethy
President Emeritus



Viktória Varjú
Certification Engineer

Certification No. 2305

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 = "000020200301"
  Comment = "\FOR GBCS COSEM TEST"
  Comment = "\NO"
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC	36	0	1	0	35	0
APPL	72	0	19	0	53	0
COSEM	11404	0	24	2922	8458	0
SYMSEC	39	0	13	0	26	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, SELECTIVE_ACCESS
SERVICE_SPECIFIC_BLOCK_TRANSFER, SET

Security features: SERVICE_SPECIFIC_DED_CIPHERING
SERVICE_SPECIFIC_GLO_CIPHERING, SUITE_0
SECURITY_ACTIVATE, KEY_TRANSFER

Data protection features: (not collected)

Logical device(s) found: SAP = 1 is "484C5930303330333030323030333031"
(HLY0030300200301)

Active firmware(s): Id=CTT V1.0.0 ,V=11.00.00.02 S=0
V= S=0D760D76
Id=HMS3XX25122G5G00000000191204110

COSEM classes tested: 1, 3, 4, 5, 6, 7 (1), 8, 9, 11, 15 (3), 17, 18, 19, 20, 22
23 (1), 29 (2), 30, 40, 41, 42, 44, 45, 64 (1), 70

COSEM classes found but not tested: (none)

Certification No. 2305

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 = "000020200301"
  Comment = "\FOR GBCS COSEM TEST"
  Comment = "\NO"
}
```

* Summary *

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC		All (MODE_E)				
APPL	72	0	19	0	53	0
COSEM	11404	0	24	2922	8458	0
SYMSEC	39	0	13	0	26	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, SELECTIVE_ACCESS
SERVICE_SPECIFIC_BLOCK_TRANSFER, SET

Security features: SERVICE_SPECIFIC_DED_CIPHERING
SERVICE_SPECIFIC_GLO_CIPHERING, SUITE_0
SECURITY_ACTIVATE, KEY_TRANSFER

Data protection features: (not collected)

Logical device(s) found: SAP = 1 is "484C5930303330333030323030333031"
(HLY0030300200301)

Active firmware(s): Id=CTT V1.0.0 ,V=11.00.00.02 S=0
V= S=0D760D76
Id=HMS3XX25122G5G00000000191204110

COSEM classes tested: 1, 3, 4, 5, 6, 7 (1), 8, 9, 11, 15 (3), 17, 18, 19, 20, 22
23 (1), 29 (2), 30, 40, 41, 42, 44, 45, 64 (1), 70

COSEM classes found but not tested: (none)

Certification No. 2305

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 = "000020200301"
  Comment = "\FOR GBCS COSEM TEST"
  Comment = "\NO"
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC		All (Communication profile not HDLC)				
APPL	72	0	18	0	54	0
COSEM	11404	0	24	2922	8458	0
SYMSEC	42	0	12	0	30	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, RLRQ_RLRE, SELECTIVE_ACCESS
SERVICE_SPECIFIC_BLOCK_TRANSFER, SET

Security features: SERVICE_SPECIFIC_DED_CIPHERING
SERVICE_SPECIFIC_GLO_CIPHERING, SUITE_0
SECURITY_ACTIVATE, KEY_TRANSFER

Data protection features: (not collected)

Logical device(s) found: SAP = 1 is "484C5930303330333030323030333031"
(HLY0030300200301)

Active firmware(s): Id=CTT V1.0.0 ,V=11.00.00.02 S=0
V= S=0D760D76
Id=HMS3XX25122G5G00000000191204110

COSEM classes tested: 1, 3, 4, 5, 6, 7 (1), 8, 9, 11, 15 (3), 17, 18, 19, 20, 22
23 (1), 29 (2), 30, 40, 41, 42, 44, 45, 64 (1), 70

COSEM classes found but not tested: (none)