

Certification No. 2513

This is to certify that the metering equipment identified as:

Type: MT302 UnverifiedFirmwareId = "\V01.08.A.1" UnverifiedFirmwareVersion = "\V01.08"
Mgmt. SAP = 1 is "484D544D54333032" (HMTMT302)
Manufactured by: Hangzhou Meteronic Technology Co., Ltd.

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

- CTT version: CTT 3.1 standard edition, 64bits, release 107
- Licensed to: Hangzhou_Meteronic_Technology (2020/8/26)
- 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	04-JAN-2021 13:53:17	CB587C9394E3FBB7496D240736D360C66 C9E09BF1D47A6FC89EA4AD6DF7265B5
Test 2	HDLC, MODE_E		SERVICE_SPECIFIC_GLO _CIPHERING, SUITE_0	04-JAN-2021 12:32:25	3B4C352D36DCDFD6F8E7B0E41C3BA72B D12231EEB076750EABE3AE532466E606
Test 2	TCP		SECURITY_ACTIVATE, KEY_TRANSFER	04-JAN-2021 08:52:55	CF79BA6ED9DCF518C0F88BA7889A540B 9EB94A18049472DAEC523BA616CE0F04

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.



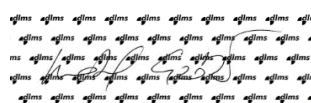
The test reports are filed by the DLMS UA. Copies are available from the manufacturer.

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: Sursee, the 7th January, 2021



Sergio Lazzarotto
Executive Director and President



Gyöző Kmethy
President Emeritus



Viktória Varjú
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 = "\Hangzhou Meteronic Technology Co., Ltd."  
  FLAGid = "\HMT"  
  Type = "\MT302"  
  UnverifiedFirmwareId = "\V01.08.A.1"  
  UnverifiedFirmwareVersion = "\V01.08"  
  ConfigurationId = "\00021630001"  
  SerialNr = "\00021630001"  
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC	36	0	1	0	35	0
APPL	73	0	19	0	54	0
COSEM	5583	0	3	868	4712	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, 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 "484D544D54333032" (HMTMT302)  
  
COSEM classes tested:          1, 3, 4, 7(1), 8, 11, 15, 17, 18, 19, 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 = "\Hangzhou Meteronic Technology Co., Ltd."
  FLAGid = "\HMT"
  Type = "\MT302"
  UnverifiedFirmwareId = "\V01.08.A.1"
  UnverifiedFirmwareVersion = "\V01.08"
  ConfigurationId = "\00021630001"
  SerialNr = "\00021630001"
}
```

* Summary *

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC		All (MODE_E)				
APPL	73	0	19	0	54	0
COSEM	5583	0	3	868	4712	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, 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 "484D544D54333032" (HMTMT302)

COSEM classes tested: 1, 3, 4, 7(1), 8, 11, 15, 17, 18, 19, 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 = "\Hangzhou Meteronic Technology Co., Ltd."  
  FLAGid = "\HMT"  
  Type = "\MT302"  
  UnverifiedFirmwareId = "\V01.08.A.1"  
  UnverifiedFirmwareVersion = "\V01.08"  
  ConfigurationId = "\00021630001"  
  SerialNr = "\00021630001"  
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC		All (Communication profile not HDLC)				
APPL	73	0	18	0	55	0
COSEM	5583	0	3	868	4712	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  
                                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 "484D544D54333032" (HMTMT302)  
  
COSEM classes tested:          1, 3, 4, 7(1), 8, 11, 15, 17, 18, 19, 20, 23, 41, 42, 45  
                                64(1), 70  
  
COSEM classes found but not tested: (none)
```