

Certification No. 2511

This is to certify that the metering equipment identified as:

Type: MT102 UnverifiedFirmwareId = "\V01.05.A.1" UnverifiedFirmwareVersion = "\V01.05"
Mgmt. SAP = 1 is "484D544D54313032" (HMTMT102)
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	28-DEC-2020 11:09:11	B473AF3B64839A2F17B47CFAF0B954241 F3DB5AF73776C56004B4F2E9C4DAB0A
Test 2	HDLC, MODE_E		SERVICE_SPECIFIC_GLO_CIPHERING, SUITE_0	28-DEC-2020 10:21:13	3FACFB7B9A795AF96AB718FF928B50AA 7F954876233FBC03A126F84AD08524A4
Test 2	TCP		SECURITY_ACTIVATE, KEY_TRANSFER	28-DEC-2020 11:43:46	DFB231A1C06209EEDD6DFD1F8D4D231A 04E317BCB5085CB8C779F98150171B71


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.



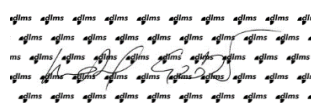
The test reports are filed by the DLMS UA. Copies are available from the manufacturer.

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 = "\MT102"  
  UnverifiedFirmwareId = "\V01.05.A.1"  
  UnverifiedFirmwareVersion = "\V01.05"  
  ConfigurationId = "\00020610001"  
  SerialNr = "\00020610001"  
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC	36	0	1	0	35	0
APPL	73	0	19	0	54	0
COSEM	2886	0	3	318	2565	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 "484D544D54313032" (HMTMT102)  
  
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 = "\MT102"  
  UnverifiedFirmwareId = "\V01.05.A.1"  
  UnverifiedFirmwareVersion = "\V01.05"  
  ConfigurationId = "\00020610001"  
  SerialNr = "\00020610001"  
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC		All (MODE_E)				
APPL	73	0	19	0	54	0
COSEM	2886	0	3	318	2565	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 "484D544D54313032" (HMTMT102)

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 = "\MT102"  
  UnverifiedFirmwareId = "\V01.05.A.1"  
  UnverifiedFirmwareVersion = "\V01.05"  
  ConfigurationId = "\00020610001"  
  SerialNr = "\00020610001"  
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC		All (Communication profile not HDLC)				
APPL	73	0	18	0	55	0
COSEM	2886	0	3	318	2565	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 "484D544D54313032" (HMTMT102)  
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)
```