

## Certification No. 2512

This is to certify that the metering equipment identified as:

**Type: MT101KP UnverifiedFirmwareId = "\V01.02.A.1" UnverifiedFirmwareVersion = "\V01.02"**  
**Mgmt. SAP = 1 is "484D544D543130314B50" (HMTMT101KP)**  
**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	26-DEC-2020 14:10:35	59EA6340003BFAB35D99D92A14EE706DEFEC9C238FB13C55FF2932D873E838BE
Test 2	HDLC, MODE_E		SERVICE_SPECIFIC_GLO_CIPHERING, SUITE_0	28-DEC-2020 09:15:31	0956615CDED111247612654CEB177DFC67980A28FA0D54328EC24861C31E6451
Test 2	TCP		SECURITY_ACTIVATE, KEY_TRANSFER	26-DEC-2020 13:42:33	B9AEA90FE90AB5CC8C2F92D26F84B86127616C2B668511CBC0BAB48B2B2A8DAC
This MT101KP meter device type has already been certified as Certification No. 2122 at 4th June 2019 manufactured by:EFR Europaeische Funk- Rundsteuerung GmbH.					

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](http://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.



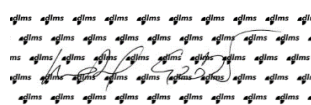
The test reports are filed by the DLMS UA. Copies are available from the manufacturer.

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 7<sup>th</sup> January, 2021



*Sergio Lazzarotto*  
Executive Director and President



*Gyöző Kmethy*  
President Emeritus



*Viktória Varjú*  
Certification Engineer

The DLMS UA is a not for profit Association in conformance with Art. 60ff of the Swiss Civil Code.  
Commercial registration number CHE-440.972.101

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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 = "\MT101KP"  
  UnverifiedFirmwareId = "\V01.02.A.1"  
  UnverifiedFirmwareVersion = "\V01.02"  
  ConfigurationId = "\00019630001"  
  SerialNr = "\00019630001"  
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC	36	0	1	0	35	0
APPL	73	0	19	0	54	0
COSEM	2580	0	3	318	2259	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 "484D544D543130314B50" (HMTMT101KP)

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 = "\MT101KP"  
  UnverifiedFirmwareId = "\V01.02.A.1"  
  UnverifiedFirmwareVersion = "\V01.02"  
  ConfigurationId = "\00019630001"  
  SerialNr = "\00019630001"  
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC		All (MODE_E)				
APPL	73	0	19	0	54	0
COSEM	2580	0	3	318	2259	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 "484D544D543130314B50" (HMTMT101KP)

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 = "\MT101KP"  
  UnverifiedFirmwareId = "\V01.02.A.1"  
  UnverifiedFirmwareVersion = "\V01.02"  
  ConfigurationId = "\00019630001"  
  SerialNr = "\00019630001"  
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC		All (Communication profile not HDLC)				
APPL	73	0	18	0	55	0
COSEM	2580	0	3	318	2259	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 "484D544D543130314B50" (HMTMT101KP)

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)