Certification No. 2481

This is to certify that the metering equipment identified as:

Type: MT358   UnverifiedFirmwareId = "\V01.05.A.01"   UnverifiedFirmwareVersion = "\V01.05"
Mgmt. SAP = 1 is "484D544D54333538" (HMTMT358)
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 SERVICE_SPECIFIC _GLO_CIPHERING, SUITE_0 KEY_TRANSFER	26-NOV-2020 09:09:35	7DF404462413DEFC54DC17456BA2D508F2 E49364B84496EB196852781BC712AE
Test 2	HDLC, MODE_E			26-NOV-2020 09:28:18	63DB457F726795E0DB9B8EFF3338712E143 434BC45BE6B7A91BBDD6B3744FA6C
Test 3	TCP			26-NOV-2020 09:45:41	E3EEEF48C5D041550976B0A9DA0587571D E2BDAE3010B7A0771727450557155C

This MT358 meter device type has already been certified as No. 2416 for EFR Europaeische Funk-Rundsteuerung GmbH at 21st August 2020.

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.

COSEM
Compliant

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 30th November 2020

Sergio Lazzarotto
Executive Director and President

Győző 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

Certification No. 2481

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 = "\MT358"
  UnverifiedFirmwareId = "\V01.05.A.01"
  UnverifiedFirmwareVersion = "\V01.05"
  ConfigurationId = "\0020621035"
  SerialNr = "\0020621035"
}

***********
* Summary *
***********


TYPE    TOTAL  SKIPPED  INAPPLICABLE  INCONCLUSIVE  PASSED  FAILED
----    -----  -------  ------------  ------------  ------  ------
HDLC    36     0        1             0             35      0
APPL    73     0        19            0             54      0
COSEM   3708   0        3             432           3273    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 "484D544D54333538" (HMTMT358)


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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Certification No. 2481

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 = "\MT358"
  UnverifiedFirmwareId = "\V01.05.A.01"
  UnverifiedFirmwareVersion = "\V01.05"
  ConfigurationId = "\0020621035"
  SerialNr = "\0020621035"
}

***********
* Summary *
***********

TYPE    TOTAL   SKIPPED   INAPPLICABLE   INCONCLUSIVE   PASSED   FAILED
----    -----   -------   ------------   ------------   ------   ------
HDLC            All(MODE_E)
APPL    73      0         19             0              54       0
COSEM   3708    0         3              432            3273     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 "484D544D54333538" (HMTMT358)


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)
```

Certification No. 2481

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 = "\MT358"
  UnverifiedFirmwareId = "\V01.05.A.01"
  UnverifiedFirmwareVersion = "\V01.05"
  ConfigurationId = "\0020621035"
  SerialNr = "\0020621035"
}


***********
* Summary *
***********


TYPE    TOTAL   SKIPPED   INAPPLICABLE   INCONCLUSIVE   PASSED   FAILED
----    -----   -------   ------------   ------------   ------   ------
HDLC            All(Communication profile not HDLC)
APPL    73      0         18             0              55       0
COSEM   3708    0         3              432            3273     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 "484D544D54333538" (HMTMT358)


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)
```