

Certification No. 2182

This is to certify that the metering equipment identified as:

**Type: i100 Active firmware(s): Id=SDA1-3D-190829 S=34AC7952
Id=7F-EMU-19071301 S=D789A169
Id=DLMSLIB-V02.07 S=V02.07**

Mgmt. SAP = 1 is "49484D30303137303030303030303330" (IHM0017000000030)

Manufactured by: INHEMETER 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: 20120917_Shenzhen_Inhemeter_Shenzhen_China (2012/9/17)
- 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_	GENERAL_GLO_CIPHERING SERVICE_SPECIFIC_GLO_ CIPHERING, SUITE_0	01-SEP-2019 19:39:08	EADBF103AEEED20E5D095CB0C A6379BB6E34B0ADD3FBE6098D 17246D09989333
Test 2	TCP	CIPHERING	SECURITY_ACTIVATE, KEY_TRANSFER	30-AUG-2019 22:32:51	F99F809654152ACE73D30E37CD C598C03322421B6716A3F1F04323 8021F6DE28

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 9th September 2019

Gyöző Kmethy
President

Viktória Varjú Timárné
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 = "\INHEMETER CO.,LTD."
  FLAGid = "\IHM"
  Type = "\i100"
  ConfigurationId = "\ConfigurationId"
  SerialNr = "\999900000048"
  Comment = "\Smart DIN meter"
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC	36	0	1	0	35	0
APPL	71	0	18	0	53	0
COSEM	7180	0	8	55	7117	0
SYMSEC	78	0	12	0	66	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, HIGH_LEVEL_SECURITY_GMAC

ACSE and xDLMS features:       ACTION, GET, MULTIPLE_REFERENCES
                                SELECTIVE_ACCESS
                                SERVICE_SPECIFIC_BLOCK_TRANSFER, SET

Security features:              GENERAL_GLO_CIPHERING
                                SERVICE_SPECIFIC_GLO_CIPHERING, SUITE_0
                                SECURITY_ACTIVATE, KEY_TRANSFER

Data protection features:       (not collected)

Logical device(s) found:        SAP = 1 is "49484D30303137303030303030303330"
                                (IHM0017000000030)
                                SAP = 16 is "49484D31303137303030303030303330"
                                (IHM1017000000030)

Active firmware(s):            Id=SDA1-3D-190829 S=34AC7952
                                Id=7F-EMU-19071301 S=D789A169
                                Id=DLMSLIB-V02.07 S=V02.07

COSEM classes tested:          1, 3, 4, 5, 6, 7 (1), 8, 9, 11, 15 (1), 17, 18, 20, 21, 22
                                23 (1), 40, 41, 48, 64 (1), 70, 71, 111, 112, 113, 115

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 = "\INHEMETER CO.,LTD."
  FLAGid = "\IHM"
  Type = "\i100"
  ConfigurationId = "\ConfigurationId"
  SerialNr = "\999900000048"
  Comment = "\Smart DIN meter"
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC		All(Communication profile not HDLC)				
APPL	71	0	17	0	54	0
COSEM	7171	0	8	55	7108	0
SYMSEC	78	0	12	0	66	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, HIGH_LEVEL_SECURITY_GMAC

ACSE and xDLMS features:      ACTION, GET, MULTIPLE_REFERENCES, RLRQ_RLRE
                               SELECTIVE_ACCESS
                               SERVICE_SPECIFIC_BLOCK_TRANSFER, SET

Security features:             GENERAL_GLO_CIPHERING
                               SERVICE_SPECIFIC_GLO_CIPHERING, SUITE_0
                               SECURITY_ACTIVATE, KEY_TRANSFER

Data protection features:      (not collected)

Logical device(s) found:      SAP = 1 is "49484D30303137303030303030303330"
                               (IHM0017000000030)
                               SAP = 16 is "49484D31303137303030303030303330"
                               (IHM1017000000030)

Active firmware(s):           Id=SDA1-3D-190829 S=34AC7952
                               Id=7F-EMU-19071301 S=D789A169
                               Id=DLMSLIB-V02.07 S=V02.07

COSEM classes tested:         1, 3, 4, 5, 6, 7 (1), 8, 9, 11, 15 (1), 17, 18, 20, 21, 22
                               40, 41, 48, 64 (1), 70, 71, 111, 112, 113, 115

COSEM classes found but not tested: (none)
```