

## **DLMS User Association**

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dlms@dlms.com

## Certification No. 2098

This is to certify that the metering equipment identified as:

**Type: i210** Active firmware(s): Id=SKI1-7A-190301 S=3B28A555, Id=7A-EMU-18112201 S=3342030405060708, Id=DLMSLIB-V02.07 S=V02.07 **Mgmt. SAP = 1 is ''49484D303031373039303032'' (IHM001709002) 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_ CIPHERING	GENERAL_CIPHERING_WITH_WRAPPED_KEY GENERAL_CIPHERING_WITH_AGREED_ONE_PASS_DH GENERAL_CIPHERING_WITH_AGREED_STATIC_UNIFIED GENERAL_GLO_CIPHERING, GENERAL_SIGNING SERVICE_SPECIFIC_DED_CIPHERING SERVICE_SPECIFIC_GLO_CIPHERING, SUITE_0 SUITE_1, SECURITY_ACTIVATE, KEY_TRANSFER	29-MAR- 2019 14:58:40	2F4A99698D1570 9E61CF936E6D5 F1AB0C33006D4 AA1FE2A0175E4 63198138336

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: <u>www.dlms.com</u>.

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.



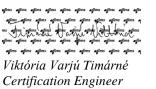
The test reports are filed by the DLMS UA. Copies are available from the manufacturer.

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 10th April 2019

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Győző Kmethy President



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. 2098

Summary of features tested for Test 1

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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 = "\i210"
 ConfigurationId = "\ConfigurationId"
 SerialNr = "\99990000012"
 Comment = "\smart meter"
}
******
* Summary *
********
TYPE TOTAL
              SKIPPED INAPPLICABLE
                                          INCONCLUSIVE
                                                         PASSED
                                                                   FAILED
               _____
       ____
____
                          _____
                                          _____
                                                          ____
                                                                    ____
HDLC 36
              0
                        5
                                         0
                                                                   0
                                                         31
APPL 151
                        23
              0
                                         0
                                                         128
                                                                   0
APPL 151 0
COSEM 48906 0
SYMSEC 69 0
                        36
                                         435
                                                         48435
                                                                   0
                         10
14
SYMSEC 69 0
                                          0
                                                          59
                                                                    0
PUBSEC 87
               0
                                         0
                                                          73
                                                                    0
                        0
DP
     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 SHA1
                                       HIGH LEVEL SECURITY GMAC
                                       HIGH_LEVEL_SECURITY_SHA256
                                       HIGH LEVEL SECURITY ECDSA
ACSE and xDLMS features:
                                       ACTION, GET, MULTIPLE REFERENCES
                                       SELECTIVE ACCESS
                                       SERVICE_SPECIFIC_BLOCK_TRANSFER, SET
                                       GENERAL CIPHERING WITH WRAPPED KEY
Security features:
                                       GENERAL_CIPHERING_WITH_AGREED_ONE_PASS_DH
                                       GENERAL CIPHERING WITH AGREED STATIC UNIFIED
                                       GENERAL_GLO_CIPHERING, GENERAL_SIGNING
                                      SERVICE_SPECIFIC_DED_CIPHERING
SERVICE_SPECIFIC_GLO_CIPHERING, SUITE_0
SUITE_1, SECURITY_ACTIVATE, KEY_TRANSFER
Data protection features:
                                       (not collected)
Logical device(s) found:
                                       SAP = 1 is "49484D303031373039303032" (IHM001709002)
Active firmware(s):
                                       Id=SKI1-7A-190301 S=3B28A555
                                       Id=7A-EMU-18112201 S=3342030405060708
                                       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),27(1),28(2),29(2),40,41,42,43,44,45
                                       47, 48, 64 (1), 70, 71, 72 (1), 74, 111, 112, 113, 115
COSEM classes found but not tested: (none)
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