

## 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: [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: Zug, the 10<sup>th</sup> April 2019

*Gyöző Kmethy*

Gyöző Kmethy  
President

*Viktória Varjú Timárné*

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.

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\* Identification \*  
\*\*\*\*\*

```
Identification = {  
  Manufacturer = "\INHEMETER CO.,LTD."  
  FLAGid = "\IHM"  
  Type = "\i210"  
  ConfigurationId = "\ConfigurationId"  
  SerialNr = "\99990000012"  
  Comment = "\smart meter"  
}
```

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\* Summary \*  
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TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
HDLC	36	0	5	0	31	0
APPL	151	0	23	0	128	0
COSEM	48906	0	36	435	48435	0
SYMSEC	69	0	10	0	59	0
PUBSEC	87	0	14	0	73	0
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\_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

Security features: 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

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)