

Certification No. 2168

This is to certify that the metering equipment identified as:

**Type: i220 Active firmware(s): Id=SKE1-2D-190519 S=2AE9FE58
Id=6F-EMU-18071301 S=D63DFEC2
Id=DLMSLIB-V02.07 S=V02.07**

Mgmt. SAP = 1 is "49484D303337303030303030303030" (IHM003700000010)

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_GLO_CIPHERING SERVICE_SPECIFIC_GLO_ CIPHERING, SUITE_0 SECURITY_ACTIVATE, KEY_TRANSFER	06-AUG-2019 16:13:55	8513D7C0FEFEB313C70DB731FD 2946D3E72913A21C67B0C009D17 DC0B329493A

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.



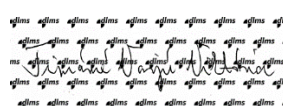
The test reports are filed by the DLMS UA. Copies are available from the manufacturer.

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 12th August 2019



Győző 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 = "\i220"  
  ConfigurationId = "\ConfigurationId"  
  SerialNr = "\999900000016"  
  Comment = "\smart 1P meter"  
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC	36	0	5	0	31	0
APPL	71	0	18	0	53	0
COSEM	6464	0	8	62	6394	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 "49484D30303337303030303030303130"  
(IHM0037000000010)  
                                SAP = 16 is "49484D31303337303030303030303130"  
(IHM1037000000010)  
  
Active firmware(s):           Id=SKE1-2D-190519 S=2AE9FE58  
                                Id=6F-EMU-18071301 S=D63DFEC2  
                                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, 64 (1), 70, 71, 111, 112, 113, 115  
  
COSEM classes found but not tested: (none)
```