

Certification No. 2376

This is to certify that the metering equipment identified as:

Type: DDSY1277

Mgmt. SAP = 1 is "4B4C452D444C4D533031" (KLE-DLMS01)

Manufactured by: SHIJIAZHUANG KELIN ELECTRIC CO.,LTD.

has successfully passed the DLMS/COSEM Conformance test, under the following conditions:

- CTT version: CTT 3.1 standard edition, 64bits, release 106
- Licensed to: 20161014_SHIJIAZHUANG_KELIN_ELECTRIC_CO (14-10-2016)
- 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	TCP	LONG_NAMES	(not collected)	16-JUN-2020 09:58:30	8AD230D62DECCD61C4AC43F975EAD877 5114F1E99055C07C93D14D3FEDB5CEDD
Test 2	HDLC, DIRECT_HDLC	LONG_NAMES, LONG_NAMES_ WITH_ CIPHERING	SERVICE_SPECIFIC_ DED_CIPHERING SERVICE_SPECIFIC_ GLO_CIPHERING, SUITE_0 SECURITY_ACTIVATE, KEY_TRANSFER	03-AUG- 2020 15:33:43	58B3EFFB018C7F0B32D7AF3CF6F953CA6 6CF37BBCF0AB197C6C8E91F472151BB

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.



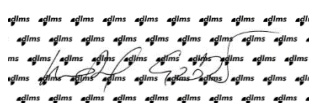
The test reports are filed by the DLMS UA. Copies are available from the manufacturer.

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 4th August 2020



Sergio Lazzarotto
Executive Director and President



Gyöző Kmethy
President Emeritus



Viktória Varjú
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 = "\SHIJIAZHUANG KELIN ELECTRIC CO.,LTD."  
  FLAGid = "\KLE"  
  Type = "\DDSY1277"  
  SerialNr = "\00000001"  
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC		All (Communication profile not HDLC)				
APPL	54	0	19	0	35	0
COSEM	518	0	4	34	480	0
SYMSEC		All (No ciphered association with the required properties)				
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  
Authentication mechanisms:     NO_SECURITY,LOW_LEVEL_SECURITY  
ACSE and xDLMS features:      GET,RLRQ_RLRE  
                               SERVICE_SPECIFIC_BLOCK_TRANSFER  
Security features:             (not collected)  
Data protection features:      (not collected)  
Logical device(s) found:      SAP = 1 is "4B4C452D444C4D533031" (KLE-DLMS01)  
COSEM classes tested:         1,3,4,7(1),8,9,15(1),20,22,23(1),40,41,48  
                               64,70,71  
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 = "\Shijiazhuang Kelin Electric Co., Ltd"  
  FLAGid = "\KLE"  
  Type = "\DDSY1277"  
  FirmwareVersion = "\V1.10"  
  SerialNr = "\000000000006"  
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	----	-----	-----	-----	-----	-----
HDLC	36	0	3	0	33	0
APPL	55	0	17	0	38	0
COSEM	552	0	2	36	514	0
SYMSEC	36	0	12	0	24	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, 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 "4B4C452D444C4D533031" (KLE-DLMS01)

COSEM classes tested: 1, 3, 4, 7(1), 8, 9, 15(1), 18, 20, 22, 23(1), 41, 45
48, 64, 70, 71

COSEM classes found but not tested: (none)