

Certification No. 2377

This is to certify that the metering equipment identified as:

Type: DTSY1277
Mgmt. SAP = 1 is "4B4C452D444C4D533033" (KLE-DLMS03)
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)	05-AUG-2020 17:46:50	3D02BD4858574E63A73445F5D831B84DE4 C4603BAD4CA5C1B9FEC11B710C9034
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 16:55:16	1A67664327EC13DF9DDE87F52D3739187F F7243197833CCF44D007B6CC482CFD

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 5th 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 = "\DTSY1277"  
  SerialNr = "\00000001"  
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC		All (Communication profile not HDLC)				
APPL	44	0	16	0	28	0
COSEM	194	0	1	0	193	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  
ACSE and xDLMS features:      GET,RLRQ_RLRE  
                               SERVICE_SPECIFIC_BLOCK_TRANSFER,SET  
Security features:             (not collected)  
Data protection features:      (not collected)  
Logical device(s) found:      SAP = 1 is "4B4C452D444C4D533033" (KLE-DLMS03)  
COSEM classes tested:          1,3,4,8,15(1),45  
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 = "\DTSY1277"
  FirmwareVersion = "\V1.10"
  SerialNr = "\000000000002"
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	----	-----	-----	-----	-----	-----
HDLC	36	0	3	0	33	0
APPL	55	0	17	0	38	0
COSEM	585	0	2	36	547	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 "4B4C452D444C4D533033" (KLE-DLMS03)

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)