

Certification No. 2209

This is to certify that the metering equipment identified as:

Type: OMNIPOWER (1165_AE1) Electricity Meter Active firmware(s): Id=35303938313136352D41453100
Mgmt. SAP = 1 is "4B414D00010000642F3B" (KAM)
Manufactured by: Kamstrup A/S

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

- CTT version: CTT 3.1 standard edition, 64bits, release 107
- Licensed to: Kamstrup (21-07-2008)
- 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, SUITE_0, KEY_TRANSFER	30-SEP- 2019 12:06:16	018923DED09D7480FBBE0FA142E9DDAD C269AE34EEBEE499DCB3A175238B5726

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.



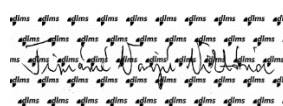
The test reports are filed by the DLMS UA. Copies are available from the manufacturer.

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 7th October 2019



Gyöző 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 = "\Kamstrup A/S"  
  FLAGid = "\KAM"  
  Type = "\OMNIPOWER (1165_AE1) Electricity Meter"  
  IUTIsModule = FALSE  
  SerialNr = "\642f3b"  
  Comment = "\OMNIA 5.6 Meter firmware (1165_AE1)"  
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC	36	0	1	0	35	0
APPL	58	0	16	0	42	0
COSEM	2128	0	2	26	2100	0
SYMSEC	36	0	8	0	28	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, SELECTIVE_ACCESS  
                                SERVICE_SPECIFIC_BLOCK_TRANSFER, SET  
  
Security features:             GENERAL_GLO_CIPHERING, SUITE_0, KEY_TRANSFER  
  
Data protection features:      (not collected)  
  
Logical device(s) found:       SAP = 16 is "4B414D00100000642F3B" (KAM)  
                                SAP = 1 is "4B414D00010000642F3B" (KAM)  
  
Active firmware(s):           Id=35303938313136352D41453100  
  
COSEM classes tested:          1, 3, 4, 7(1), 8, 9, 11, 15(2), 17, 18, 20, 23(1), 64  
                                70  
  
COSEM classes found but not tested: (none)
```