

Certification No. 2284

This is to certify that the metering equipment identified as:

**Type: HS330SH2LAT1 Active firmware(s): Id=00200901
Id=01204208
Id=09621400**

Mgmt. SAP = 1 is "454C5331313030313037303030313633" (ELS1100107000163)

Manufactured by: Elster Solutions GmbH

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

- CTT version: CTT 3.1 standard edition, 64bits, release 107
- Licensed to: 20160902_Elster_Solution_GmbH (02.09.2016)
- 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	HDLC, DIRECT_HLC	LONG_NAMES, LONG_NAMES_ WITH_ CIPHERING	GENERAL_CIPHERING_WITH_ IDENTIFIED_KEY GENERAL_GLO_CIPHERING, SUITE_0 SECURITY_ACTIVATE, KEY_TRANSFER	25-OCT-2019 17:02:45	138AF61657F2172EE33FCC67 1738C7D842A494B92CD90E4 00B38E89C9EDA9FC3

This HS330SH2LAT1 meter device type has already been certified as Certification No. 2027 tested with CTT.3.1 release 106 at 23rd October 2018.

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.



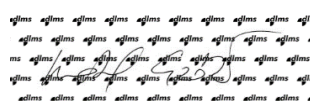
The test reports are filed by the DLMS UA. Copies are available from the manufacturer.

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 13th February 2020



Sergio Lazzarotto
Executive Director and President



Győző Kmethy
President Emeritus



Viktória Varjú
Certification Engineer

Certification No. 2284

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 = "\Elster Solutions GmbH"
  FLAGid = "\ELS"
  Type = "\HS330SH2LAT1"
  IUTisModule = FALSE
  SerialNr = "\1ELS0107000163"
  Comment = "\FOR CETUS02 METER DLMS TEST"
  Comment = "\NO"
}
```

* Summary *

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC	36	0	3	0	33	0
APPL	66	0	9	0	57	0
COSEM	1505	0	9	61	1435	0
SYMSEC		All (No ciphered association with the required properties)				
PUBSEC	48	0	10	0	38	0
DP	0	0	0	0	0	0
GBT	25	0	2	5	18	0

Communication profile: HDLC

Application context names: LONG_NAMES, LONG_NAMES_WITH_CIPHERING

Authentication mechanisms: NO_SECURITY, HIGH_LEVEL_SECURITY_SHA256

ACSE and xDLMS features: ACCESS, GENERAL_BLOCK_TRANSFER, GBT_STREAMING
GET, MULTIPLE_REFERENCES, RLRQ_RLRE
SELECTIVE_ACCESS, SET

Security features: GENERAL_CIPHERING_WITH_IDENTIFIED_KEY
GENERAL_GLO_CIPHERING, SUITE_1
SECURITY_ACTIVATE, KEY_TRANSFER

Data protection features: (not collected)

Logical device(s) found: SAP = 1 is "454C5331313030313037303030313633"
(ELS1100107000163)

Active firmware(s): Id=00200901
S=5C0C3BE496E39E8D78BBBC5509B59155DF131D70EC8DABDD94F1202A4B9193C16CF407B43968B4862B34CA55CC3810
F21D020011283DA64CCE9BB68B941FC678

Id=01204208
S=D48114C05671F4868544E26428F1186E42D8CF9B937654BD73155F8610A077E841FDD87C3350D79EA25349B40B1E4C
2E8BB2C02F5EDD942B788909C6F15B1AE6

Id=09621400
S=87CF062B829374949ACBC0DFEC8905210E9657D424088A6C90E886A67D86BEED9FE748BF6F0BD4239B12B6BC33C23D
66B8D2E27FBB53A372C30A3DC7DE5805B7

COSEM classes tested: 1, 3, 4, 5, 6, 7 (1), 8, 9, 11, 15 (3), 17, 18, 20, 21, 22
23 (1), 29 (2), 40, 41, 43, 48, 64 (1), 70, 71, 72 (1)
74, 90 (1), 91 (1), 92 (1)

COSEM classes found but not tested: (none)