

## Certification No. 2283

This is to certify that the metering equipment identified as:

**Type: AM540 Active firmware(s): Id=563033413036002E3030 S=B6FA**  
**Id=AM54006.01.03.03 S=B596654E**  
**Id=V070807.06 S=00000000,S=P**

**Mgmt. SAP = 1 is "454C5331303330373230323035303133" (ELS1030720205013)**

**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	UDP	LONG_NAMES, LONG_NAMES_ WITH_ CIPHERING	GENERAL_GLO_CIPHERING, SERVICE_SPECIFIC_GLO_ CIPHERING, SUITE_0 SECURITY_ACTIVATE, KEY_TRANSFER	28-JAN-2020 08:14:37	7078A623AFF2E834FBF012 65F2677229452648B0367A5 E455A376E792EE2A3B5

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](http://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.



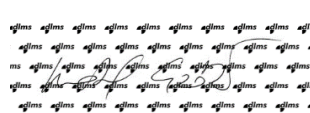
The test reports are filed by the DLMS UA. Copies are available from the manufacturer.

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 11<sup>th</sup> February 2020



*Sergio Lazzarotto*  
Executive Director and President



*Győző 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 = "\Elster Solutions GmbH"  
  FLAGid = "\ELS"  
  Type = "\AM540"  
  IUTIsModule = FALSE  
  SerialNr = "\20205013"  
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC		All (Communication profile not HDLC)				
APPL	55	0	16	0	39	0
COSEM	1399	0	7	44	1348	0
SYMSEC	39	0	9	0	30	0
PUBSEC		All (No ciphered association with the required properties)				
DP	0	0	0	0	0	0
GBT	25	0	10	5	10	0

Communication profile: UDP

Application context names: LONG\_NAMES, LONG\_NAMES\_WITH\_CIPHERING

Authentication mechanisms: NO\_SECURITY, HIGH\_LEVEL\_SECURITY\_GMAC

ACSE and xDLMS features: ACTION, GENERAL\_BLOCK\_TRANSFER, GET  
MULTIPLE\_REFERENCES, RLRQ\_RLRE  
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 "454C5331303330373230323035303133"  
(ELS1030720205013)

Active firmware(s): Id=563033413036002E3030 S=B6FA  
Id=AM54006.01.03.03 S=B596654E  
Id=V070807.06 S=00000000,S=P

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

COSEM classes found but not tested: (none)