

## Certification No. 2029

This is to certify that the metering equipment identified as:

**Type: HS330SH2LAT1**

**Mgmt. SAP = 1 is "454C5331313030313030303030303036" (ELS1100100000006)**

**Manufactured by: Elster Solutions GmbH**

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

- CTT version: CTT 3.1 extended edition, 64bits, release 106
- 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,<br>DIRECT_HDLC         | LONG_NAMES,<br>LONG_NAMES_WITH_<br>CIPHERING | GENERAL_CIPHERING_<br>WITH_IDENTIFIED_KEY<br>GENERAL_GLO_<br>CIPHERING, SUITE_1<br>SECURITY_ACTIVATE,<br>KEY_TRANSFER | 30-OCT-2018<br>09:42:22 | 4A7DCDE77F9D66E70E3A91<br>C519B8E3CD35CD0260AC12<br>C8775540EBD144F414AB |

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 31<sup>st</sup> October 2018



Gyöző Kmety  
President

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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 = "\HS330SH2LAT1"
  IUTisModule = FALSE
  SerialNr = "\1ELS0100000006"
}
```

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

| TYPE   | TOTAL | SKIPPED  | INAPPLICABLE | INCONCLUSIVE | PASSED | FAILED |
|--------|-------|--|--------------|--------------|--------|--------|
| ----   | ----- | -----  | -----        | -----        | -----  | -----  |
| HDLC   | 36    | 0  | 3            | 0            | 33     | 0      |
| APPL   | 66    | 0  | 9            | 0            | 57     | 0      |
| COSEM  | 1409  | 0  | 8            | 48           | 1353   | 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 "454C5331313030313030303030303036"
                                (ELS1100100000006)

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)
```