

Certification No. 2343

This is to certify that the metering equipment identified as:

Type: ST405D_V031005 **Active firmware(s):** Id=V031005 S=6E58325E
Mgmt. SAP = 1 is "4D414331303330373030313934303839" (MAC1030700194089)
Manufactured by: METER & CONTROL DOO

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

- CTT version: CTT 3.1 standard edition, 64bits, release 107
- Licensed to: 20190830_METER&CONTROL_DOO_SERBIA (30.8.2019.)
- COSEM object definitions file version: Object_defs_v3.6_Released_2_20200102.dat
- Media identifier(s): Abstract, Electricity

| Tests | Comm. profile & opening mode | Application contexts | Security features | Date and time | Test Result hash value |
|--------|------------------------------|---------------------------------------|--|-------------------------|--|
| Test 1 | HDLCDIRECT_HDLC | LONG_NAMES, LONG_NAMES_WITH_CIPHERING | SERVICE_SPECIFIC_DED_CIPHERING SERVICE_SPECIFIC_GLO_CIPHERING, SUITE_0 SECURITY_ACTIVATE, KEY_TRANSFER | 13-MAY-2020 16:13:39 | C6037CAD4184C57500B51DAB88F8E454B426326F1DF914480D4894EADAFB02CF |

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.



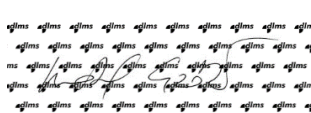
The test reports are filed by the DLMS UA. Copies are available from the manufacturer.

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 14th May 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 = "\METER & CONTROL DOO"  
  FLAGid = "\MAC"  
  Type = "\ST405D_V031005"  
  SerialNr = "00194089"  
}
```

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

| TYPE | TOTAL | SKIPPED | INAPPLICABLE | INCONCLUSIVE | PASSED | FAILED |
|--------|-------|--|--------------|--------------|--------|--------|
| ---- | ----- | ----- | ----- | ----- | ----- | ----- |
| HDLC | 36 | 0 | 4 | 0 | 32 | 0 |
| APPL | 88 | 0 | 20 | 0 | 68 | 0 |
| COSEM | 5167 | 0 | 0 | 91 | 5076 | 0 |
| SYMSEC | 64 | 0 | 10 | 0 | 54 | 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, LOW_LEVEL_SECURITY
HIGH_LEVEL_SECURITY_GMAC

ACSE and xDLMS features: ACTION, GET, MULTIPLE_REFERENCES, RLRQ_RLRE
SELECTIVE_ACCESS
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 "4D414331303330373030313934303839"
(MAC1030700194089)

Active firmware(s): Id=V031005 S=6E58325E

COSEM classes tested: 1, 3, 4, 5, 6, 7 (1), 8, 9, 11, 15 (1), 17, 18, 20, 21, 22
23 (1), 64, 70, 71, 72, 74

COSEM classes found but not tested: (none)