

Certification No. 2280

This is to certify that the metering equipment identified as:

Type: MET410-AMI4 Active firmware(s): Id=V030510.86 S=fl
Mgmt. SAP = 1 is "4D454C31303130373130373235343335" (MEL1010710725435)
Manufactured by: Mikroelektronika

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

- CTT version: CTT 3.1 standard edition, 64bits, release 107
- Licensed to: 20170830_MIKROELEKTRONIKA_AD_Banja_Luka (30.8.2017.)
- COSEM object definitions file version: Object_defs_v3.1_released_170313.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	SERVICE_SPECIFIC_GLO_ CIPHERING, SUITE_0 SECURITY_ACTIVATE, KEY_TRANSFER	28-JAN-2020 17:41:32	8A661826FC0BF9A41054507 504196FEB2F7C6C89A3FD4 5DD59F08A9438E71891
Test 2	HDLC, DIRECT_HDLC	LONG_NAMES	not collected	28-JAN-2020 16:43:00	893BB0EB6A0C9D6CB30944 70FC7364C1B784495EDBEA BAE0B10851D88E76894E

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.



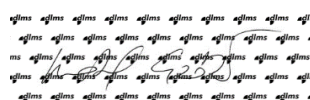
The test reports are filed by the DLMS UA. Copies are available from the manufacturer.

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 29th January 2020



Sergio Lazzarotto
Executive Director and President



Gyöző Kmethy
President Emeritus



Viktória Varjú
Certification Engineer

Certification No. 2280

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 = "\Mikroelektronika"  
  FLAGid = "\MEL"  
  Type = "\MET410-AMI4"  
  IUTIsModule = FALSE  
  SerialNr = "10725435"  
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	----	-----	-----	-----	-----	-----
HDLC	36	0	3	0	33	0
APPL	55	0	17	0	38	0
COSEM	1193	0	0	21	1172	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		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, MULTIPLE_REFERENCES, RLRQ_RLRE
SELECTIVE_ACCESS
SERVICE_SPECIFIC_BLOCK_TRANSFER, SET

Security features: SERVICE_SPECIFIC_GLO_CIPHERING, SUITE_0
SECURITY_ACTIVATE, KEY_TRANSFER

Data protection features: (not collected)

Logical device(s) found: SAP = 1 is "4D454C31303130373130373235343335"
(MEL1010710725435)

Active firmware(s): Id=V030510.86 S=fL

COSEM classes tested: 1, 3, 4, 5, 6, 7(1), 8, 9, 11, 15(1), 17, 18, 19(1), 20
21, 22, 23(1), 27(1), 41, 42, 43, 45, 48, 64, 70, 71
90(1), 91(1), 92(1)

COSEM classes found but not tested: (none)

Certification No. 2280

Summary of features tested for Test 2

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 = "\Mikroelektronika"  
  FLAGid = "\MEL"  
  Type = "\MET410-AMI4"  
  IUTIsModule = FALSE  
  SerialNr = "10725435"  
}
```

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

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	----	-----	-----	-----	-----	-----
HDLC	36	0	3	0	33	0
APPL	57	0	19	0	38	0
COSEM	1193	0	0	21	1172	0
SYMSEC		All (No ciphered association with the required properties)				
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

Authentication mechanisms: NO_SECURITY, LOW_LEVEL_SECURITY

ACSE and xDLMS features: GET, MULTIPLE_REFERENCES, RLRQ_RLRE
SELECTIVE_ACCESS
SERVICE_SPECIFIC_BLOCK_TRANSFER, SET

Security features: (not collected)

Data protection features: (not collected)

Logical device(s) found: SAP = 1 is "4D454C31303130373130373235343335"
(MEL1010710725435)

Active firmware(s): Id=V030510.86 S=fL

COSEM classes tested: 1, 3, 4, 5, 6, 7 (1), 8, 9, 11, 15 (1), 17, 18, 19 (1), 20
21, 22, 23 (1), 27 (1), 41, 42, 43, 45, 48, 64, 70, 71
90 (1), 91 (1), 92 (1)

COSEM classes found but not tested: (none)

OVERENI PREVOD SA ENGLESKOG JEZIKA



DLMS User Association

Bahnhofstrasse 28
CH-6304 Cug
Švajcarska

Tel. +36 28 514065

dlms@dlms.com

Sertifikat br. 2280

Ovim se potvrđuje da je dole identifikovana oprema za merenje:

Tip: MET410-AMI4 Aktivni firmver: Id=V030510.86 S=fL
Mgmt. SAP = 1, "4D454C31303130373130373235343335" (MEL1010710725435)
Proizvođač: Mikroelektronika

uspešno prošla DLMS/COSEM ispitivanje usaglašenosti pod sledećim uslovima:

- CTT verzija: CTT standardna verzija 3.1, 64 bitova, izdanje 107
- Nosilac licence: 20170830_MIKROELEKTRONIKA_AD_Banja_Luka (30.8.2017)
- Verzija fajla COSEM definicije predmeta: Objects_defs_v3.1_released_170313.dat
- Korišćeni identifikatori medija: Abstract, Electricity

Ispitivanja	Komunikacijski profil i početni režim	Kontekst primene	Bezbednosne karakteristike	Datum i vreme	Heš vrednost rezultata ispitivanja
Test 1	HDLC, DIRECT_HDLC	LONG_NAMES, LONG_NAMES_WITH_H_CIPHERING	SERVICE_SPECIFIC_GLO_CIPHERING_SUITE_0 SECURITY_ACTIVE, KEY_TRANSFER	28.1.2020. 17:41:32	8A661826FC0BF9A41054507504196FEB2F7C6C89 A3FD45DD59F08A9438E71891
Test 2	HDLC, DIRECT_HDLC	LONG_NAMES	nema podataka	28.1.2020. 16:43:00	893BB0EB6A0C9D6CB3094470FC7364C1B784495E DBEABAE0B10851D88E76894E

Verodostojnost izveštaja o ispitivanju utvrdio je DLMS User Association, a gore identifikovana oprema za merenje navedena je na njihovoj internet stranici www.dlms.com.

Ovim proizvođač stiče pravo da na svoj propisno identifikovan proizvod, kao i na sva dokumenta vezana za proizvod, stavi oznaku DLMS/COSEM Compliant.



Izveštaje o testiranju DLMS UA čuva u svojoj evidenciji. Njegove kopije se mogu dobiti od proizvođača.

Ovaj sertifikat važi samo za funkcije koje su uspešno prošle ispitivanje. Ispitivanje je izvršeno na jednom uzorku proizvoda, koji je identifikovan prijavljenim Nazivom logičkog uređaja za upravljanje. Može se desiti da se rezultati ne mogu primeniti na druge ispitivane uzorke.

Datum: Cug, 29. januar 2020.

(Svojeručni potpis)

Sergio Lazzarotto

Izvršni direktor i predsednik

(Svojeručni potpis)

Gyozo Kmethy

Počasni predsednik

(Svojeručni potpis)

Viktoria Varju

Inženjer za sertifikaciju

DLMS UA je neprofitno udruženje osnovano u skladu sa čl. 60ff švajcarskog Gradanskog zakonika.
Matični broj: CHE-440.972.101



Sertifikat br. 2280

Pregled karakteristika ispitanih tokom Testa 1

Ovaj odeljak predstavlja pregled ispitanih karakteristika, prikupljenih od svih logičkih uređaja i aplikacijskih veza tokom jedne faze ispitivanja. Celokupni podaci su dostupni u okviru rezultata ispitivanja.

```

*****
* Identification *
*****

Identification = {
  Manufacturer = "\Mikroelektronika"
  FLAGid = "\MEL"
  Type = "\MET410-AMI4"
  IUIIsModule = FALSE
  SerialNr = "10725435"
}

*****
* Summary *
*****

TYPE      TOTAL      SKIPPED      INAPPLICABLE      INCONCLUSIVE      PASSED      FAILED
-----      -
HDLC       36           0             3                 0                 33          0
APPL       55           0            17                 0                 38          0
COSEM     1193         0             0                 21                1172         0
SYMSEC     39           0             9                 0                 30          0
PUBSEC
DP          0           0            0                 0                 0           0
GBT        All (No ciphered association with the required properties)
          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 xDIMS features:      ACTION, GET, MULTIPLE_REFERENCES, RLRQ_RLRE
                                SELECTIVE_ACCESS
                                SERVICE_SPECIFIC_BLOCK_TRANSFER, SET
Security features:             SERVICE_SPECIFIC_GLO_CIPHERING, SUITE_0
                                SECURITY_ACTIVATE, KEY_TRANSFER
Data protection features:      (not collected)
Logical device(s) found:
(MEL1010710725435)           SAP = 1 is "4D454C31303130373130373235343335"
Active firmware(s):           Id=V030510.86 S=FL
COSEM classes tested:         1, 3, 4, 5, 6, 7 (1), 8, 9, 11, 15 (1), 17, 18, 19 (1), 20
                                21, 22, 23 (1), 27 (1), 41, 42, 43, 45, 46, 64, 70, 71
                                90 (1), 91 (1), 92 (1)
COSEM classes found but not tested: (none)

```

DLMS UA je neprofitno udruženje osnovano u skladu sa čl. 60ff švajcarskog Gradanskog zakonika.
Matični broj: CHE-440.972.101



OVERENI PREVOD SA ENGLESKOG JEZIKA

Sertifikat br. 2280

Pregled karakteristika ispitanih tokom Testa 2

Ovaj odeljak predstavlja pregled ispitanih karakteristika, prikupljenih od svih logičkih uređaja i aplikacijskih veza tokom jedne faze ispitivanja. Celokupni podaci su dostupni u okviru rezultata ispitivanja.

```
*****
* Identification *
*****

Identification = (
  Manufacturer = "Mikroelektronika"
  FLAGid = "\MEL"
  Type = "\MET410-AMI4"
  IUTIsModule = FALSE
  SerialNr = "10725435"
)

*****
* Summary *
*****

TYPE      TOTAL      SKIPPED      INAPPLICABLE      INCONCLUSIVE      PASSED      FAILED
-----
HDLC      36             0             3                 0                 33          0
APPL      57             0             19                0                 38          0
COSEM     1193          0             0                 21                1172         0
SYMSEC    All (No ciphered association with the required properties)
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
Authentication mechanisms:     NO_SECURITY, LOW_LEVEL_SECURITY
ACSE and XDLMS features:      GET, MULTIPLE_REFERENCES, RLRO_RLRE
                                SELECTIVE_ACCESS
                                SERVICE_SPECIFIC_BLOCK_TRANSFER, SET
Security features:             (not collected)
Data protection features:      (not collected)
Logical device(s) found:
(MEL1010710725435)            SAP = 1 is "4D454C31303130373130373235343335"
Active firmware(s):           Id=V030510.06 S=FL
COSEM classes tested:         1, 3, 4, 5, 6, 7(1), 8, 9, 11, 15(1), 17, 18, 19(1), 20
                                21, 22, 23(1), 27(1), 41, 42, 43, 45, 48, 64, 70, 71
                                90(1), 91(1), 92(1)
COSEM classes found but not tested: (none)
```

DLMS UA je neprofitno udruženje osnovano u skladu sa čl. 60ff švajcarskog Građanskog zakonika
Matični broj: CHE-440.972.101

.....kraj prevoda.....



OVERENI PREVOD SA ENGLSKOG JEZIKA

Ja, dole potpisani sudski prevodilac, postavljen rešenjem Ministarstva pravde Republike Srbije br. 740-06-968/2000-04 od 12.4.2000, ovim potvrđujem da je ovaj prevod na srpski jezik u potpunosti veran originalu dokumenta na engleskom jeziku. Moje nameštenje traje neograničeno.

U Beogradu, 4. marta 2020.
Br. 1586/2020

A circular blue stamp with the text "SUDSKI PREVODILAC ZA ENGLSKI JEZIK" around the top and "BEOGRAD" at the bottom. In the center, the name "Maja Popović" is written in a stylized font. To the right of the stamp is a handwritten signature in blue ink.

Maja Popović
Sudski prevodilac za engleski jezik