

Certification No. 2424

This is to certify that the metering equipment identified as:

Type: MEM600 Active firmware(s): Id=2.0.02.[403F5E00].xxxxxx/X
 Id=6.49.224.[(5.3.[(5.5.1)_(1.0.0)]_(7.7.0)].982296/A
 Id=5.0.14.1.[0.0.0.0].982249/C
 Id=6.49.224.[(000000011)_(03.09.2020 15:10)].982296/A
Mgmt. SAP = 1 is "4D454C31303130373132303030323333" (MEL1010712000233)
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_v3.6_Released_20200825.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 | (not collected) | 03-SEP-2020 15:10:27 | 41AF6C73D888A9BA5A0384B3FDB606829 F3EEA3804AB043DC031211D6A31C081 |

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 3rd September 2020



Sergio Lazzarotto
Executive Director and President



Gyöző Kmethy
President Emeritus



Viktória Varjú
Certification Engineer

Certification No. 2424

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 = "\MEM600"  
  IUTIsModule = FALSE  
  SerialNr = "12000233"  
}
```

* Summary *

| TYPE | TOTAL | SKIPPED | INAPPLICABLE | INCONCLUSIVE | PASSED | FAILED |
|--------|-------|--|--------------|--------------|--------|--------|
| ---- | ---- | ----- | ----- | ----- | ----- | ----- |
| HDLC | 36 | 0 | 3 | 0 | 33 | 0 |
| APPL | 57 | 0 | 19 | 0 | 38 | 0 |
| COSEM | 1848 | 0 | 8 | 43 | 1797 | 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 "4D454C31303130373132303030323333"
(MEL1010712000233)

Active firmware(s):
Id=2.0.02.[403F5E00].xxxxxx/X
S=2FCC9D2CC827CF9EA5D5B5AF557EBF7E0B76A3EBEB455717E29581000903717B
Id=6.49.224.[(5.3.[(5.5.1)_(1.0.0)])_(7.7.0)].982296/A
S=520E245F4AA98703D1E076A44F8E1CFBF2C21F4AFABDACAC164299F4D1B3125D
Id=5.0.14.1.[0.0.0.0].982249/C
S=E135D85E4ABBFB8CA975E84A0320D3FF398FAE9ED8B2FF7FD703F654B023E53
Id=6.49.224.[(00000011)_(03.09.2020 15:10)].982296/A

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), 28 (2), 29 (2), 40, 41, 42, 43
44, 45, 48, 64, 70, 71, 72, 74, 90 (1), 91 (1), 92 (1)

COSEM classes found but not tested: 47 (1), 100, 151



DLMS User Association

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Švajcarska

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certification@dlms.com

Sertifikat br. 2424

Ovim se potvrđuje da je dole identifikovana oprema za merenje:

Tip: MEM600 Aktivni firmver: Id=2.0.02.[403F5E00].xxxxxx/X
Id=6.49.224.[(5.3.[(5.5.1)_(1.0.0)]_(7.7.0)].982296/A
Id=5.0.14.1.[0.0.0.0].982249/C
Id=6.49.224.[(000000011)_(03.09.2020 15:10)].982296/A
Mgmt. SAP = 1, "4D454C31303130373132303030323333" (MEL1010712000233)
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_v3.6_released_20200825.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 | (nema podataka) | 3.9.2020. 15:10:27 | 41AF6C73D888A9BA5A0384B3FDB606829 F3EEA3804AB043DC031211D6A31C081 |

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; videti Pregled. 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, 3. septembar 2020.

(Svojeručni potpis)

Sergio Lazzarotto

Izvršni direktor i predsednik

(Svojeručni potpis)

Gyozo Kmety

Počasní predsednik

(Svojeručni potpis)

Viktoria Varju

Inženjer za sertifikaciju

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



OVERENI PREVOD SA ENGLSKOG JEZIKA

Sertifikat br. 2424

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 = "\MEM600"
  IUTIsModule = FALSE
  SerialNr = "12000299"
}

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

TYPE      TOTAL      SKIPPED      INAPPLICABLE      INCONCLUSIVE      PASSED      FAILED
-----      -
HDLC      36             0             3                 0                 32          0
APPL      57             0             19                0                 36          0
COSEM    1848           0             5                 43                1797         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 nDLMS features:      GET,MULTIPLE_REFERENCES,RLQ_RLRE
                                SELECTIVE_ACCESS
                                SERVICE_SPECIFIC_BLOCK_TRANSFER,SET
Security features:             (not collected)
Data protection features:      (not collected)
Logical device(s) found:
                                SAP = 1 is "4D464C91903190373192903030923999"
(MEL1010712000299)
Active firmware(s):
                                Id=2.0.02.{403F5E00}.XXXXXXXX/X
S=2F0C9D2CC827CF9EA8D8B8AF657EBF7E0B76A3EBEB455717E29561000903717B
                                Id=6.49.224.{(5.5.1){(5.5.1)}_(1.0.0)}_(7.7.0)}.982296/A
S=520E245F4AA96709D1E076A44F8E1CFBF2C21P4AFABDACAC164299F4D1E3125D
                                Id=5.0.14.1.{0.0.0.0}.982249/C
S=E135D85E4A8BFEC8CA975E84A0320D3FF398FAE9ED9B2FF7FD703F684B023E53
                                Id=6.49.224.{(000000011)}_(09.09.2020 16:10)}.982296/A

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),28(2),29(2),30,41,42,43
                                44,45,48,64,70,71,72,74,90(1),91(1),92(1)
COSEM classes found but not tested: 47(1),100,151
```

DLMS UA je neprofitno udruženje osnovano u skladu sa čl. 60ff švajcarskog Građanskog zakonika.

Matični broj: CHE-440.972.101



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.....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. septembra 2020.
Br. 4973/2020



Maja Popović

SUDSKI PREVODILAC ZA ENGLSKI JEZIK
BEOGRAD

Maja Popović
Sudski prevodilac za engleski jezik