

Certification No. 2174

This is to certify that the metering equipment identified as:

Type: AM550-TT2.0 Active firmware(s): Id=ISK550TC03304000
Id=ISK550TA02303039
Id=ISKMO6HL76922.26.180400.2018
Id=ISK550TR02302011
Id=ISK550TB01300000

Mgmt. SAP = 1 is "49534B31303330373230313932303232" (ISK1030720192022)

Manufactured by: Iskraemeco d.d.

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

- CTT version: CTT 3.1 standard edition, 64bits, release 107
- Licensed to: ISKRAEMECO d.d. (25.2.2003)
- 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 IR	HDLC, MODE_E	LONG_NAMES, LONG_NAMES _WITH_ CIPHERING	GENERAL_GLO_ CIPHERING, SUITE_0 SECURITY_ACTIVATE, KEY_TRANSFER	26-AUG-2019 13:40:42	7D197A36EB0D8AC1DBDBCE7588596B8D DD53140D9F9A1CB57E3E605AADD1B4D1
Test 2 RS485	HDLC, DIRECT_HDLC			28-AUG-2019 10:15:17	C806E89619AAB197CE5DC4626CCD421FBF C413C32E539E0D01CACE1C26AA7608
Test 3 LTE	TCP			26-AUG-2019 13:06:13	69C8EC0BCAC083E5164DDF8254D38F203F F712485C40C5D29CE78D26021FF0D4

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 August 2019

Gyöző Kmethy
President

Viktória Varjú Timárné
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 = "\Iskraemeco d.d."
  FLAGid = "\ISK"
  Type = "\AM550-TT2.0"
  IUTIsModule = FALSE
  SerialNr = "\20192022"
  Comment = "\IR_HDLC"
  Comment = "\GENERAL GLO CIPHERING"
}
```

* Summary *

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC		All (MODE_E)				
APPL	66	0	9	0	57	0
COSEM	4114	0	11	615	3488	0
SYMSEC	39	0	8	0	31	0
PUBSEC		All (No ciphered association with the required properties)				
DP	0	0	0	0	0	0
GBT	25	0	1	0	24	0

Communication profile: HDLC

Application context names: LONG_NAMES, LONG_NAMES_WITH_CIPHERING

Authentication mechanisms: NO_SECURITY, HIGH_LEVEL_SECURITY_GMAC

ACSE and xDLMS features: ACCESS, GENERAL_BLOCK_TRANSFER, GBT_STREAMING
GET, MULTIPLE_REFERENCES, RLRQ_RLRE
SELECTIVE_ACCESS, SET

Security features: GENERAL_GLO_CIPHERING, SUITE_0
SECURITY_ACTIVATE, KEY_TRANSFER

Data protection features: (not collected)

Logical device(s) found: SAP = 1 is "49534B31303330373230313932303232"
(ISK1030720192022)

Active firmware(s): Id=ISK550TC03304000 S=09676F2058F8F4B671B6CD5ABF6CA39A42
07AB7A59C76B81737FC1B9C188EA5A2959CE9433E754D3B063F5A3770D187A668532E3083C999A63B90C2DA6A41FBF
Id=ISK550TA02303039 S=C1B03A2F176D95EADA81BD4AABACD8E3130
D192CD859D8349ADE362E04ADB0FAB241A9631C35A221D7A5B88E59051B2962ECB5453E55BF49DBBC7B5BDBDA2D42
Id=ISKMO6HL76922.26.180400.2018 ,S=P
Id=ISK550TR02302011
S=44EB6F99564D5DBAE44CE1391A1D6346266C3D88485C8FC9043B312C257D4BB7
Id=ISK550TB01300000 S=D5D6E167A660B67E385661ECB07BD087498E
F5CAB2BE926248D77A33CEA164B50F1564A5242F2AA5027EB592A76ADEB05AEF4945D0AD1721497146815C6E8E86

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, 50 (1), 51, 52, 53, 55, 56, 64, 70, 71, 72
74, 90 (1), 91 (1), 92 (1)

COSEM classes found but not tested: 47 (1), 100, 122, 151

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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 = "\Iskraemeco d.d."  
  FLAGid = "\ISK"  
  Type = "\AM550-TT2.0"  
  IUTIsModule = FALSE  
  SerialNr = "\20192022"  
  Comment = "\RS485_HDLC"  
  Comment = "\GENERAL GLO CIPHERING"  
}
```

* Summary *

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC	36	0	4	0	32	0
APPL	66	0	9	0	57	0
COSEM	4114	0	11	615	3488	0
SYMSEC	39	0	8	0	31	0
PUBSEC		All (No ciphered association with the required properties)				
DP	0	0	0	0	0	0
GBT	25	0	1	0	24	0

Communication profile: HDLC

Application context names: LONG_NAMES, LONG_NAMES_WITH_CIPHERING

Authentication mechanisms: NO_SECURITY, HIGH_LEVEL_SECURITY_GMAC

ACSE and xDLMS features: ACCESS, GENERAL_BLOCK_TRANSFER, GBT_STREAMING
GET, MULTIPLE_REFERENCES, RLRQ_RLRE
SELECTIVE_ACCESS, SET

Security features: GENERAL_GLO_CIPHERING, SUITE_0
SECURITY_ACTIVATE, KEY_TRANSFER

Data protection features: (not collected)

Logical device(s) found: SAP = 1 is "49534B31303330373230313932303232"
(ISK1030720192022)

Active firmware(s): Id=ISK550TC03304000 S=09676F2058F8F4B671B6CD5ABF6CA39A42
07AB7A59C76B81737FC1B9C188EA5A2959CE9433E754D3B063F5A3770D187A668532E3083C999A63B90C2DA6A41FBF
Id=ISK550TA02303039 S=C1B03A2F176D95EADA81BD4AABACD8E3130
D192CD859D8349ADE362E04ADB0FAB241A9631C35A221D7A5B88E59051B2962ECB5453E55BF49DBBC7B5BDBDA2D42
Id=ISKMO6HL76922.26.180400.2018 ,S=P
Id=ISK550TR02302011
S=44EB6F99564D5DBAE44CE1391A1D6346266C3D88485C8FC9043B312C257D4BB7
Id=ISK550TB01300000 S=D5D6E167A660B67E385661ECB07BD087498E
F5CAB2BE926248D77A33CEA164B50F1564A5242F2AA5027EB592A76ADEB05AEF4945D0AD1721497146815C6E8E86

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, 50 (1), 51, 52, 53, 55, 56, 64, 70, 71, 72
74, 90 (1), 91 (1), 92 (1)

COSEM classes found but not tested: 47 (1), 100, 122, 151

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Summary of features tested for Test 3

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 = "\Iskraemeco d.d."
  FLAGid = "\ISK"
  Type = "\AM550-TT2.0"
  IUTisModule = FALSE
  SerialNr = "\20192022"
  Comment = "\LTE_TCP_IP"
  Comment = "\GENERAL GLO CIPHERING"
}
```

* Summary *

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
----	-----	-----	-----	-----	-----	-----
HDLC		All(Communication profile not HDLC)				
APPL	66	0	8	0	58	0
COSEM	4114	0	11	615	3488	0
SYMSEC	39	0	8	0	31	0
PUBSEC		All (No ciphered association with the required properties)				
DP	0	0	0	0	0	0
GBT	25	0	1	0	24	0

Communication profile: TCP

Application context names: LONG_NAMES, LONG_NAMES_WITH_CIPHERING

Authentication mechanisms: NO_SECURITY, HIGH_LEVEL_SECURITY_GMAC

ACSE and xDLMS features: ACCESS, GENERAL_BLOCK_TRANSFER, GBT_STREAMING
GET, MULTIPLE_REFERENCES, RLRQ_RLRE
SELECTIVE_ACCESS, SET

Security features: GENERAL_GLO_CIPHERING, SUITE_0
SECURITY_ACTIVATE, KEY_TRANSFER

Data protection features: (not collected)

Logical device(s) found: SAP = 1 is "49534B31303330373230313932303232"

(ISK1030720192022)

Active firmware(s): Id=ISK550TC03304000 S=09676F2058F8F4B671B6CD5ABF6CA39A42
07AB7A59C76B81737FC1B9C188EA5A2959CE9433E754D3B063F5A3770D187A668532E3083C999A63B90C2DA6A41FBF
Id=ISK550TA02303039 S=C1B03A2F176D95EADA81BD4AABACD8E3130
D192CD859D8349ADE362E04ADB0FAB241A9631C35A221D7A5B88E59051B2962ECB5453E55BF49DBBC7B5BDBDA2D42
Id=ISKMO6HL76922.26.180400.2018 ,S=P
Id=ISK550TR02302011
S=44EB6F99564D5DBAE44CE1391A1D6346266C3D88485C8FC9043B312C257D4BB7

Id=ISK550TB01300000 S=D5D6E167A660B67E385661ECB07BD087498E
F5CAB2BE926248D77A33CEA164B50F1564A5242F2AA5027EB592A76ADEB05AEF4945D0AD1721497146815C6E8E86
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, 50 (1), 51, 52, 53, 55, 56, 64, 70, 71, 72
74, 90 (1), 91 (1), 92 (1)

COSEM classes found but not tested: 47 (1), 100, 122, 151