



Certificate of Compliance

Certificate N°:	3208	issue date:	April 25th, 2025
Applicant:	ISKRAEMECO d.d. Savska loka 4 4000-Kranj Slovenia	Issued to:	ISKRAEMECO d.d. Savska loka 4 4000-Kranj Slovenia

The certified product listed below is eligible to bear the DLMS UA Mark shown



PRODUCT

Model:	IE.5
Type:	Single phase IE.5-ED1-H12 + AC160-A6, G3-PLC and GPRS/UMTS/LTE IDIS Package 3 Smart Meter
Manufacturer:	Iskraemeco d.d.
S/N°:	10003151

Anthony FIELD
Chairman

Sergio LAZZAROTTO
President and Executive Director

This Certificate of **Compliance** is based on an evaluation of a test report based on a single test executed on one specimen of the product, as identified by the **Product** data above. This Certificate is issued on the condition that the holder complies and will continue to comply with the licensing requirement and procedures issued by **DLMS UA**.
The authenticity of the test report has been verified by the **DLMS User Association** and the equipment identified above is listed on its web site at: www.dlms.com.



TEST SUMMARY REPORT

Certificate N°: 3208

PRODUCT

Identifier 0100000200FF:ISKIE5EC05200091
Identifier 0101000200FF:ISKIE5EA11200246
Firmware ID: Identifier 0105000200FF:ISKIE5ER10200148
Identifier 0106000200FF:ISKIE5EB03200016
Identifier 0107000200FF:ISKIE5EK05200153
Mgmt LDN (SAP = 1): SAP = 1 is "49534B31303430373130303033313531" (ISK1040710003151)
Manufacturer: Iskraemeco d.d.
Media Identifier: ABSTRACT, ELECTRICITY_AC
S/N°: 10003151

COMPLIANCE SPECIFICATION

COSEM IF Classes and OBIS Codes: Blue Book Ed. 15
DLMS/COSEM Protocol: Green Book Ed. 11

TESTS SPECIFICATION

Test Specification: Abstract Test Plan 4.3
Test Tool Version: CTT4.3
Test Tool Licensee: ISKRAEMECO d.d.
COSEM Object definition file: Object_defs_v15.1_230915.dat
Communication profile: TCP, UDP, MODE_E
COSEM classes tested: 1,3,4,5,6,7(1),8,9,11,15(3),17,18,19(1),20
21,22,23(1),27(1),28(2),29(2),40(2),41,42
43,44,45,47(2),48,64(1),70,71,72(2),74,77
90(1),91(1),92(1),100,122,151(1)
Date of issue: 25-APR-2025



SUMMARY TCP profile

Certificate N°: 3208
Test File: CTT-IE5-ED1-H12-P3-V4.3-103-LTE-TCP-IP-SUITE1_Report.txt
Hash: A932C6BAD0A1C7051A12D561875518B3C4A5DFF65D2385D3DA0C3BF3416AFF2E
Test Script File: CTT-IE5-ED1-H12-P3-V4.3-103-LTE-TCP-IP-SUITE1_CTI.txt
Date of issue: 11-FEB-2025 15:26:47
Tested by: milan.kozole@iskraemeco.com

* Summary *

TEST SUITE PASSED	TOTAL	PASSED	FAILED
APPL	237	237	0
SecMsg	105	105	0
GBT	19	19	0
COSEM	4060	4060	0
SymKey	136	136	0
PubCert	449	449	0
SecPol	64	64	0

Communication profile: TCP
Serial number: 10003151
Logical device(s) found: SAP = 1 is "49534B31303430373130303033313531" (ISK1040710003151)
Firmware(s): Identifier 0104000200FF: <OctetString Value="" />
Signature 0104000200FF: <OctetString Value="" />
Identifier 0103000200FF: <OctetString Value="" />
Signature 0103000200FF: <OctetString Value="" />
Identifier 0101000200FF: <OctetString Value="" />
Signature 0101000200FF: <OctetString Value="" />
Identifier 0106000200FF: <OctetString Value="" />
Signature 0106000200FF: <OctetString Value="" />
Identifier 0100000200FF: <OctetString Value="" />
Signature 0100000200FF: <OctetString Value="" />
Identifier 0107000200FF: <OctetString Value="" />
Signature 0107000200FF: <OctetString Value="" />
Identifier 0105000200FF: <OctetString Value="" />
Signature 0105000200FF: <OctetString Value="" />
Identifier 0102000200FF: <OctetString Value="" />
Signature 0102000200FF: <OctetString Value="" />
Application context names: LONG_NAMES, LONG_NAMES_WITH_CIPHERING
Authentication mechanisms: NO_SECURITY, HIGH_LEVEL_SECURITY_GMAC
HIGH_LEVEL_SECURITY_SHA256, HIGH_LEVEL_SECURITY_ECDSA
ACSE and xDLMS features: ACCESS, ACTION, GENERAL_BLOCK_TRANSFER
GBT_STREAMING, GET, MULTIPLE_REFERENCES
RLRQ_RLRE, SERVICE_SPECIFIC_BLOCK_TRANSFER, SET
PROFILE_BUFFER_SELECTIVE_ACCESS_BY_RANGE
PROFILE_BUFFER_SELECTIVE_ACCESS_BY_ENTRY
Security features: GENERAL_CIPHERING_WITH_IDENTIFIED_KEY
GENERAL_CIPHERING_WITH_WRAPPED_KEY
GENERAL_CIPHERING_WITH_AGREED_ONE_PASS_DH
GENERAL_CIPHERING_WITH_AGREED_STATIC_UNIFIED
GENERAL_DED_CIPHERING, GENERAL_GLO_CIPHERING
GENERAL_SIGNING
SERVICE_SPECIFIC_DED_CIPHERING
SERVICE_SPECIFIC_GLO_CIPHERING
SUITE_1, SECURITY_ACTIVATE
KEY_TRANSFER, KEY_AGREEMENT
CERTIFICATES, COMPRESSION



SUMMARY UDP profile

Certificate N°: 3208
Test File: CTT-IE5-ED1-H12-P3-V4.3-103-G3-UDP-IP-SUITE1_Report.txt
Hash: B8929E5E55ED29538E5EA796BDC5ECEDDDE1BF5562842A927D36100BEADAC864
Test Script File: CTT-IE5-ED1-H12-P3-V4.3-103-G3-UDP-IP-SUITE1_CTI.txt
Date of issue: 11-FEB-2025 12:56:47
Tested by: milan.kozole@iskraemeco.com

* Summary *

TEST SUITE PASSED	TOTAL	PASSED	FAILED
APPL	236	236	0
SecMsg	105	105	0
GBT	19	19	0
COSEM	4060	4060	0
SymKey	136	136	0
PubCert	449	449	0
SecPol	64	64	0

Communication profile: UDP
Serial number: 10003151
Logical device(s) found: SAP = 1 is "49534B31303430373130303033313531" (ISK1040710003151)
Firmware(s): Identifier 0104000200FF: <OctetString Value="" />
Signature 0104000200FF: <OctetString Value="" />
Identifier 0103000200FF: <OctetString Value="" />
Signature 0103000200FF: <OctetString Value="\P" />
Identifier 0101000200FF: <OctetString Value="\ISKIE5EA11200246" />
Signature 0101000200FF: <OctetString Value="7ED0A258...89767665" />
Identifier 0106000200FF: <OctetString Value="\ISKIE5EB03200016" />
Signature 0106000200FF: <OctetString Value="EFBE70A3...E9D1A3BC" />
Identifier 0100000200FF: <OctetString Value="\ISKIE5EC05200091" />
Signature 0100000200FF: <OctetString Value="40450AE4...EBF95EAB" />
Identifier 0107000200FF: <OctetString Value="\ISKIE5EK05200153" />
Signature 0107000200FF: <OctetString Value="4F4DB19D...82D3D2C1" />
Identifier 0105000200FF: <OctetString Value="\ISKIE5ER10200148" />
Signature 0105000200FF: <OctetString Value="9666E7F8...AB2BB666" />
Identifier 0102000200FF: <OctetString Value="\ISKMO550080" />
Signature 0102000200FF: <OctetString Value="" />
Application context names: LONG_NAMES, LONG_NAMES_WITH_CIPHERING
Authentication mechanisms: NO_SECURITY, HIGH_LEVEL_SECURITY_GMAC
HIGH_LEVEL_SECURITY_SHA256, HIGH_LEVEL_SECURITY_ECDSA
ACSE and xDLMS features: ACCESS, ACTION, GENERAL_BLOCK_TRANSFER
GBT_STREAMING, GET, MULTIPLE_REFERENCES
RLRQ_RLRE, SERVICE_SPECIFIC_BLOCK_TRANSFER, SET
PROFILE_BUFFER_SELECTIVE_ACCESS_BY_RANGE
PROFILE_BUFFER_SELECTIVE_ACCESS_BY_ENTRY
Security features: GENERAL_CIPHERING_WITH_IDENTIFIED_KEY
GENERAL_CIPHERING_WITH_WRAPPED_KEY
GENERAL_CIPHERING_WITH_AGREED_ONE_PASS_DH
GENERAL_CIPHERING_WITH_AGREED_STATIC_UNIFIED
GENERAL_DED_CIPHERING, GENERAL_GLO_CIPHERING
GENERAL_SIGNING
SERVICE_SPECIFIC_DED_CIPHERING
SERVICE_SPECIFIC_GLO_CIPHERING
SUITE_1, SECURITY_ACTIVATE
KEY_TRANSFER, KEY_AGREEMENT
CERTIFICATES, COMPRESSION



SUMMARY MODE_E profile

Certificate N°: 3208
Test File: CTT-IE5-ED1-H12-P3-V4.3-103-IR-MODE-E-SUITE1_Report.txt
Hash: 99C1F88C83B8E4CA3950DB5397E7920B4C944FC5921DE6F6E6A82CE291A2DDA9
Test Script File: CTT-IE5-ED1-H12-P3-V4.3-103-IR-MODE-E-SUITE1_CTI.txt
Date of issue: 11-FEB-2025 10:28:22
Tested by: milan.kozole@iskraemeco.com

* Summary *

TEST SUITE PASSED	TOTAL	PASSED	FAILED
APPL	237	237	0
SecMsg	105	105	0
GBT	19	19	0
COSEM	4046	4046	0
SymKey	136	136	0
PubCert	449	449	0
SecPol	64	64	0

Communication profile: HDLC
Serial number: 10003151
Logical device(s) found: SAP = 1 is "49534B31303430373130303033313531" (ISK1040710003151)
Firmware(s): Identifier 0104000200FF: <OctetString Value="" />
Signature 0104000200FF: <OctetString Value="" />
Identifier 0103000200FF: <OctetString Value="" />
Signature 0103000200FF: <OctetString Value="\P" />
Identifier 0101000200FF: <OctetString Value="\ISKIE5EA11200246" />
Signature 0101000200FF: <OctetString Value="7ED0A258...89767665" />
Identifier 0106000200FF: <OctetString Value="\ISKIE5EB03200016" />
Signature 0106000200FF: <OctetString Value="EFBE70A3...E9D1A3BC" />
Identifier 0100000200FF: <OctetString Value="\ISKIE5EC05200091" />
Signature 0100000200FF: <OctetString Value="40450AE4...EBF95EAB" />
Identifier 0107000200FF: <OctetString Value="\ISKIE5EK05200153" />
Signature 0107000200FF: <OctetString Value="4F4DB19D...82D3D2C1" />
Identifier 0105000200FF: <OctetString Value="\ISKIE5ER10200148" />
Signature 0105000200FF: <OctetString Value="9666E7F8...AB2BB666" />
Identifier 0102000200FF: <OctetString Value="\ISKMO550080" />
Signature 0102000200FF: <OctetString Value="" />

Application context names: LONG_NAMES, LONG_NAMES_WITH_CIPHERING
Authentication mechanisms: NO_SECURITY, HIGH_LEVEL_SECURITY_GMAC
HIGH_LEVEL_SECURITY_SHA256, HIGH_LEVEL_SECURITY_ECDSA

ACSE and xDLMS features: ACCESS, ACTION, GENERAL_BLOCK_TRANSFER
GBT_STREAMING, GET, MULTIPLE_REFERENCES
RLRQ_RLRE, SERVICE_SPECIFIC_BLOCK_TRANSFER, SET
PROFILE_BUFFER_SELECTIVE_ACCESS_BY_RANGE
PROFILE_BUFFER_SELECTIVE_ACCESS_BY_ENTRY

Security features: GENERAL_CIPHERING_WITH_IDENTIFIED_KEY
GENERAL_CIPHERING_WITH_WRAPPED_KEY
GENERAL_CIPHERING_WITH_AGREED_ONE_PASS_DH
GENERAL_CIPHERING_WITH_AGREED_STATIC_UNIFIED
GENERAL_DED_CIPHERING, GENERAL_GLO_CIPHERING
GENERAL_SIGNING
SERVICE_SPECIFIC_DED_CIPHERING, SERVICE_SPECIFIC_GLO_CIPHERING
SUITE_1, SECURITY_ACTIVATE
KEY_TRANSFER, KEY_AGREEMENT
CERTIFICATES, COMPRESSION



SUMMARY TCP profile

Certificate N°: 3208
Test File: CTT-IE5-ED1-H12-P3-V4.3-103-LTE-TCP-IP-SUITE2_Report.txt
Hash: 3345A2E32F257C5B5EDB663FDA429A9ED22327BA68FF3AB47080A8333FEA187D
Test Script File: CTT-IE5-ED1-H12-P3-V4.3-103-LTE-TCP-IP-SUITE2_CTI.txt
Date of issue: 18-FEB-2025 15:01:25
Tested by: milan.kozole@iskraemeco.com

* Summary *

TEST SUITE PASSED	TOTAL	PASSED	FAILED
APPL	237	237	0
SecMsg	105	105	0
GBT	19	19	0
COSEM	4067	4067	0
SymKey	136	136	0
PubCert	449	449	0
SecPol	64	64	0

Communication profile: TCP
Serial number: 10003151
Logical device(s) found: SAP = 1 is "49534B31303430373130303033313531" (ISK1040710003151)
Firmware(s): Identifier 0104000200FF: <OctetString Value="" />
Signature 0104000200FF: <OctetString Value="" />
Identifier 0103000200FF: <OctetString Value="" />
Signature 0103000200FF: <OctetString Value="\P" />
Identifier 0101000200FF: <OctetString Value="\ISKIE5EA11200246" />
Signature 0101000200FF: <OctetString Value="7ED0A258...89767665" />
Identifier 0106000200FF: <OctetString Value="\ISKIE5EB03200016" />
Signature 0106000200FF: <OctetString Value="EFBE70A3...E9D1A3BC" />
Identifier 0100000200FF: <OctetString Value="\ISKIE5EC05200091" />
Signature 0100000200FF: <OctetString Value="40450AE4...EBF95EAB" />
Identifier 0107000200FF: <OctetString Value="\ISKIE5EK05200153" />
Signature 0107000200FF: <OctetString Value="4F4DB19D...82D3D2C1" />
Identifier 0105000200FF: <OctetString Value="\ISKIE5ER10200148" />
Signature 0105000200FF: <OctetString Value="9666E7F8...AB2BB666" />
Identifier 0102000200FF: <OctetString Value="\ISKMO6EG91A02M4G_IE_0100101001" />
Signature 0102000200FF: <OctetString Value="" />
Application context names: LONG_NAMES, LONG_NAMES_WITH_CIPHERING
Authentication mechanisms: NO_SECURITY, HIGH_LEVEL_SECURITY_GMAC
HIGH_LEVEL_SECURITY_SHA256, HIGH_LEVEL_SECURITY_ECDSA
ACSE and xDLMS features: ACCESS, ACTION, GENERAL_BLOCK_TRANSFER
GBT_STREAMING, GET, MULTIPLE_REFERENCES
RLRQ_RLRE, SERVICE_SPECIFIC_BLOCK_TRANSFER, SET
PROFILE_BUFFER_SELECTIVE_ACCESS_BY_RANGE
PROFILE_BUFFER_SELECTIVE_ACCESS_BY_ENTRY
Security features: GENERAL_CIPHERING_WITH_IDENTIFIED_KEY
GENERAL_CIPHERING_WITH_WRAPPED_KEY
GENERAL_CIPHERING_WITH_AGREED_ONE_PASS_DH
GENERAL_CIPHERING_WITH_AGREED_STATIC_UNIFIED
GENERAL_DED_CIPHERING, GENERAL_GLO_CIPHERING
GENERAL_SIGNING
SERVICE_SPECIFIC_DED_CIPHERING, SERVICE_SPECIFIC_GLO_CIPHERING
SUITE_2, SECURITY_ACTIVATE
KEY_TRANSFER, KEY_AGREEMENT
CERTIFICATES, COMPRESSION



SUMMARY UDP profile

Certificate N°: 3208
Test File: CTT-IE5-ED1-H12-P3-V4.3-103-G3-UDP-IP-SUITE2_Report.txt
Hash: 419445C7537C0F7B55733FE17226F2A09D3DF982CB925E736E55A1969DED8AA0
Test Script File: CTT-IE5-ED1-H12-P3-V4.3-103-G3-UDP-IP-SUITE2_CTI.txt
Date of issue: 18-FEB-2025 13:22:11
Tested by: milan.kozole@iskraemeco.com

* Summary *

TEST SUITE PASSED	TOTAL	PASSED	FAILED
APPL	236	236	0
SecMsg	105	105	0
GBT	19	19	0
COSEM	4067	4067	0
SymKey	136	136	0
PubCert	449	449	0
SecPol	64	64	0

Communication profile: UDP
Serial number: 10003151
Logical device(s) found: SAP = 1 is "49534B31303430373130303033313531" (ISK1040710003151)
Firmware(s): Identifier 0104000200FF: <OctetString Value="" />
Signature 0104000208FF: <OctetString Value="" />
Identifier 0103000200FF: <OctetString Value="" />
Signature 0103000208FF: <OctetString Value="" />
Identifier 0101000200FF: <OctetString Value="" />
Signature 0101000208FF: <OctetString Value="" />
Identifier 0106000200FF: <OctetString Value="" />
Signature 0106000208FF: <OctetString Value="" />
Identifier 0100000200FF: <OctetString Value="" />
Signature 0100000208FF: <OctetString Value="" />
Identifier 0107000200FF: <OctetString Value="" />
Signature 0107000208FF: <OctetString Value="" />
Identifier 0105000200FF: <OctetString Value="" />
Signature 0105000208FF: <OctetString Value="" />
Identifier 0102000200FF: <OctetString Value="" />
Signature 0102000208FF: <OctetString Value="" />
Application context names: LONG_NAMES, LONG_NAMES_WITH_CIPHERING
Authentication mechanisms: NO_SECURITY, HIGH_LEVEL_SECURITY_GMAC
HIGH_LEVEL_SECURITY_SHA256, HIGH_LEVEL_SECURITY_ECDSA
ACSE and xDLMS features: ACCESS, ACTION, GENERAL_BLOCK_TRANSFER
GBT_STREAMING, GET, MULTIPLE_REFERENCES
RLRQ_RLRE, SERVICE_SPECIFIC_BLOCK_TRANSFER, SET
PROFILE_BUFFER_SELECTIVE_ACCESS_BY_RANGE
PROFILE_BUFFER_SELECTIVE_ACCESS_BY_ENTRY
Security features: GENERAL_CIPHERING_WITH_IDENTIFIED_KEY
GENERAL_CIPHERING_WITH_WRAPPED_KEY
GENERAL_CIPHERING_WITH_AGREED_ONE_PASS_DH
GENERAL_CIPHERING_WITH_AGREED_STATIC_UNIFIED
GENERAL_DED_CIPHERING, GENERAL_GLO_CIPHERING
GENERAL_SIGNING
SERVICE_SPECIFIC_DED_CIPHERING, SERVICE_SPECIFIC_GLO_CIPHERING
SUITE_2, SECURITY_ACTIVATE
KEY_TRANSFER, KEY_AGREEMENT
CERTIFICATES, COMPRESSION



SUMMARY MODE_E profile

Certificate N°: 3208
Test File: CTT-IE5-ED1-H12-P3-V4.3-103-IR-MODE-E-SUITE2_Report.txt
Hash: D657A6A60CC781755AF547E2A5BB7F95C3DB6198C6487019D9613C57E4B8FFB4
Test Script File: CTT-IE5-ED1-H12-P3-V4.3-103-IR-MODE-E-SUITE2_CTI.txt
Date of issue: 18-FEB-2025 11:15:59
Tested by: milan.kozole@iskraemeco.com

* Summary *

TEST SUITE PASSED	TOTAL	PASSED	FAILED
APPL	237	237	0
SecMsg	105	105	0
GBT	19	19	0
COSEM	4053	4053	0
SymKey	136	136	0
PubCert	449	449	0
SecPol	64	64	0

Communication profile: HDLC
Serial number: 10003151
Logical device(s) found: SAP = 1 is "49534B31303430373130303033313531" (ISK1040710003151)
Firmware(s): Identifier 0104000200FF: <OctetString Value="" />
Signature 0104000208FF: <OctetString Value="" />
Identifier 0103000200FF: <OctetString Value="" />
Signature 0103000208FF: <OctetString Value="" />
Identifier 0101000200FF: <OctetString Value="" />
Signature 0101000208FF: <OctetString Value="" />
Identifier 0106000200FF: <OctetString Value="" />
Signature 0106000208FF: <OctetString Value="" />
Identifier 0100000200FF: <OctetString Value="" />
Signature 0100000208FF: <OctetString Value="" />
Identifier 0107000200FF: <OctetString Value="" />
Signature 0107000208FF: <OctetString Value="" />
Identifier 0105000200FF: <OctetString Value="" />
Signature 0105000208FF: <OctetString Value="" />
Identifier 0102000200FF: <OctetString Value="" />
Signature 0102000208FF: <OctetString Value="" />
Application context names: LONG_NAMES, LONG_NAMES_WITH_CIPHERING
Authentication mechanisms: NO_SECURITY, HIGH_LEVEL_SECURITY_GMAC
HIGH_LEVEL_SECURITY_SHA256, HIGH_LEVEL_SECURITY_ECDSA
ACSE and xDLMS features: ACCESS, ACTION, GENERAL_BLOCK_TRANSFER
GBT_STREAMING, GET, MULTIPLE_REFERENCES
RLRQ_RLRE, SERVICE_SPECIFIC_BLOCK_TRANSFER, SET
PROFILE_BUFFER_SELECTIVE_ACCESS_BY_RANGE
PROFILE_BUFFER_SELECTIVE_ACCESS_BY_ENTRY
Security features: GENERAL_CIPHERING_WITH_IDENTIFIED_KEY
GENERAL_CIPHERING_WITH_WRAPPED_KEY
GENERAL_CIPHERING_WITH_AGREED_ONE_PASS_DH
GENERAL_CIPHERING_WITH_AGREED_STATIC_UNIFIED
GENERAL_DED_CIPHERING, GENERAL_GLO_CIPHERING
GENERAL_SIGNING
SERVICE_SPECIFIC_DED_CIPHERING, SERVICE_SPECIFIC_GLO_CIPHERING
SUITE_2, SECURITY_ACTIVATE
KEY_TRANSFER, KEY_AGREEMENT
CERTIFICATES, COMPRESSION