



Certificate of Compliance

Certificate N°:	3209	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:	Three phase IE.5-TD2-H12 + AC160-A6, G3-PLC and GPRS/UMTS/LTE IDIS Package 3 Smart Meter
Manufacturer:	Iskraemeco d.d.
S/N°:	20231478

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°: 3209

PRODUCT

Identifier 0100000200FF:ISKIE5TC05200091
Identifier 0101000200FF:ISKIE5TA11200246
Firmware ID: Identifier 0105000200FF:ISKIE5TR10200148
Identifier 0106000200FF:ISKIE5TB03200016
Identifier 0107000200FF:ISKIE5TK05200153
Mgmt LDN (SAP = 1): SAP = 1 is "49534B31303530373230323331343738" (ISK1050720231478)
Manufacturer: Iskraemeco d.d.
Media Identifier: ABSTRACT, ELECTRICITY_AC
S/N°: 20231478

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°: 3209
Test File: CTT-IE5-TD2-H12-P3-V4.3-103-LTE-TCP-IP-SUITE1_Report.txt
Hash: 271A15D4EEA3E74D89FB6C4CCA21994B204D5208E9BA2F56011F9D1735341DBA
Test Script File: CTT-IE5-TD2-H12-P3-V4.3-103-LTE-TCP-IP-SUITE1_CTI.txt
Date of issue: 14-FEB-2025 14:18:37
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	4711	4711	0
SymKey	136	136	0
PubCert	449	449	0
SecPol	64	64	0

Communication profile: TCP
Serial number: 20231478
Logical device(s) found: SAP = 1 is "49534B31303530373230323331343738" (ISK1050720231478)
Firmware(s): Identifier 0104000200FF: <OctetString Value="" />
Signature 0104000208FF: <OctetString Value="" />
Identifier 0103000200FF: <OctetString Value="" />
Signature 0103000208FF: <OctetString Value="\P" />
Identifier 0101000200FF: <OctetString Value="\ISKIE5TA11200246" />
Signature 0101000208FF: <OctetString Value="77E36268...511AD1E1" />
Identifier 0106000200FF: <OctetString Value="\ISKIE5TB03200016" />
Signature 0106000208FF: <OctetString Value="0CA3D888...A43BAD6" />
Identifier 0100000200FF: <OctetString Value="\ISKIE5TC05200091" />
Signature 0100000208FF: <OctetString Value="B674A93E...5D503907" />
Identifier 0107000200FF: <OctetString Value="\ISKIE5TK05200153" />
Signature 0107000208FF: <OctetString Value="37F51A30...20FA9011" />
Identifier 0105000200FF: <OctetString Value="\ISKIE5TR10200148" />
Signature 0105000208FF: <OctetString Value="966BC765...9A3BB93F" />
Identifier 0102000200FF: <OctetString Value="\ISKMO6EG91A02M4G_IE_0100101001" />
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_1, SECURITY_ACTIVATE
KEY_TRANSFER, KEY_AGREEMENT
CERTIFICATES, COMPRESSION



DLMS[®]

Certificate of Compliance

SUMMARY UDP profile

Certificate N°: 3209

Test File: CTT-IE5-TD2-H12-P3-V4.3-103-G3-UDP-IP-SUITE1_Report.txt

Hash: 51CBE2D446E8C0D3000B20F37676781F37A8B44D7FA8CF40A1CA69B3ECA22EE7

Test Script File: CTT-IE5-TD2-H12-P3-V4.3-103-G3-UDP-IP-SUITE1_CTI.txt

Date of issue: 17-FEB-2025 12:16:05

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	4676	4676	0
SymKey	136	136	0
PubCert	449	449	0
SecPol	64	64	0

Communication profile: UDP

Serial number: 20231478

Logical device(s) found: SAP = 1 is "49534B31303530373230323331343738" (ISK1050720231478)

Firmware(s): Identifier 0104000200FF: <OctetString Value="" />
Signature 0104000208FF: <OctetString Value="" />
Identifier 0103000200FF: <OctetString Value="" />
Signature 0103000208FF: <OctetString Value="\P" />
Identifier 0101000200FF: <OctetString Value="\ISKIE5TA11200246" />
Signature 0101000208FF: <OctetString Value="77E36268...511AD1E1" />
Identifier 0106000200FF: <OctetString Value="\ISKIE5TB03200016" />
Signature 0106000208FF: <OctetString Value="0CA3D888...A43BAD6" />
Identifier 0100000200FF: <OctetString Value="\ISKIE5TC05200091" />
Signature 0100000208FF: <OctetString Value="B674A93E...5D503907" />
Identifier 0107000200FF: <OctetString Value="\ISKIE5TK05200153" />
Signature 0107000208FF: <OctetString Value="37F51A30...20FA9011" />
Identifier 0105000200FF: <OctetString Value="\ISKIE5TR10200148" />
Signature 0105000208FF: <OctetString Value="966BC765...9A3BB93F" />
Identifier 0102000200FF: <OctetString Value="\ISKMO550080" />
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_1, SECURITY_ACTIVATE
KEY_TRANSFER, KEY_AGREEMENT
CERTIFICATES, COMPRESSION



SUMMARY MODE_E profile

Certificate N°: 3209
Test File: CTT-IE5-TD2-H12-P3-V4.3-103-IR-MODE-E-SUITE1_Report.txt
Hash: 12AC9FF3B5C4B44C9218783EFCDA155597289AF53FBDEA652D1DAA549EFA215C
Test Script File: CTT-IE5-TD2-H12-P3-V4.3-103-IR-MODE-E-SUITE1_CTI.txt
Date of issue: 12-FEB-2025 10:09:45
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	4683	4683	0
SymKey	136	136	0
PubCert	449	449	0
SecPol	64	64	0

Communication profile: HDLC
Serial number: 20231478
Logical device(s) found: SAP = 1 is "49534B31303530373230323331343738" (ISK1050720231478)
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_1, SECURITY_ACTIVATE
KEY_TRANSFER, KEY_AGREEMENT
CERTIFICATES, COMPRESSION



SUMMARY TCP profile

Certificate N°: 3209
Test File: CTT-IE5-TD2-H12-P3-V4.3-103-LTE-TCP-IP-SUITE2_Report.txt
Hash: EA79A48B95475D8B9B2F6A5DE59A66D688FD5542B4F099350A5B56899A9CC6F1
Test Script File: CTT-IE5-TD2-H12-P3-V4.3-103-LTE-TCP-IP-SUITE2_CTI.txt
Date of issue: 20-FEB-2025 08:59:29
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	4690	4690	0
SymKey	136	136	0
PubCert	449	449	0
SecPol	64	64	0

Communication profile: TCP
Serial number: 20231478
Logical device(s) found: SAP = 1 is "49534B31303530373230323331343738" (ISK1050720231478)
Firmware(s): Identifier 0104000200FF: <OctetString Value="" />
Signature 0104000208FF: <OctetString Value="" />
Identifier 0103000200FF: <OctetString Value="" />
Signature 0103000208FF: <OctetString Value="\P" />
Identifier 0101000200FF: <OctetString Value="\ISKIE5TA11200246" />
Signature 0101000208FF: <OctetString Value="77E36268...511AD1E1" />
Identifier 0106000200FF: <OctetString Value="\ISKIE5TB03200016" />
Signature 0106000208FF: <OctetString Value="0CA3D888...A43BAD6C" />
Identifier 0100000200FF: <OctetString Value="\ISKIE5TC05200091" />
Signature 0100000208FF: <OctetString Value="B674A93E...5D503907" />
Identifier 0107000200FF: <OctetString Value="\ISKIE5TK05200153" />
Signature 0107000208FF: <OctetString Value="37F51A30...20FA9011" />
Identifier 0105000200FF: <OctetString Value="\ISKIE5TR10200148" />
Signature 0105000208FF: <OctetString Value="966BC765...9A3BB93F" />
Identifier 0102000200FF: <OctetString Value="\ISKMO6EG91A02M4G_IE_0100101001" />
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 UDP profile

Certificate N°: 3209
Test File: CTT-IE5-TD2-H12-P3-V4.3-103-G3-UDP-IP-SUITE2_Report.txt
Hash: 5B60833E39A2B9DAED535B67753494E2837C31400490EF38E2DA0E0596A7BFB5
Test Script File: CTT-IE5-TD2-H12-P3-V4.3-103-G3-UDP-IP-SUITE2_CTI.txt
Date of issue: 19-FEB-2025 08:18:51
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	4676	4676	0
SymKey	136	136	0
PubCert	449	449	0
SecPol	64	64	0

Communication profile: UDP
Serial number: 20231478
Logical device(s) found: SAP = 1 is "49534B31303530373230323331343738" (ISK1050720231478)
Firmware(s): Identifier 0104000200FF: <OctetString Value="" />
Signature 0104000200FF: <OctetString Value="" />
Identifier 0103000200FF: <OctetString Value="" />
Signature 0103000200FF: <OctetString Value="\P" />
Identifier 0101000200FF: <OctetString Value="\ISKIE5TA11200246" />
Signature 0101000200FF: <OctetString Value="77E36268...511AD1E1" />
Identifier 0106000200FF: <OctetString Value="\ISKIE5TB03200016" />
Signature 0106000200FF: <OctetString Value="0CA3D888...A43BAD6" />
Identifier 0100000200FF: <OctetString Value="\ISKIE5TC05200091" />
Signature 0100000200FF: <OctetString Value="B674A93E...5D503907" />
Identifier 0107000200FF: <OctetString Value="\ISKIE5TK05200153" />
Signature 0107000200FF: <OctetString Value="37F51A30...20FA9011" />
Identifier 0105000200FF: <OctetString Value="\ISKIE5TR10200148" />
Signature 0105000200FF: <OctetString Value="966BC765...9A3BB93F" />
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_2, SECURITY_ACTIVATE
KEY_TRANSFER, KEY_AGREEMENT
CERTIFICATES, COMPRESSION



SUMMARY MODE_E profile

Certificate N°: 3209
Test File: CTT-IE5-TD2-H12-P3-V4.3-103-IR-MODE-E-SUITE2_Report.txt
Hash: E7461C81D14FD7C2265F67FC513D1E17962C357D5D29E3ED42A75870C363C598
Test Script File: CTT-IE5-TD2-H12-P3-V4.3-103-IR-MODE-E-SUITE2_CTI.txt
Date of issue: 19-FEB-2025 14:29:56
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	4676	4676	0
SymKey	136	136	0
PubCert	449	449	0
SecPol	64	64	0

Communication profile: HDLC
Serial number: 20231478
Logical device(s) found: SAP = 1 is "49534B31303530373230323331343738" (ISK1050720231478)
Firmware(s): Identifier 0104000200FF: <OctetString Value="" />
Signature 0104000200FF: <OctetString Value="" />
Identifier 0103000200FF: <OctetString Value="" />
Signature 0103000200FF: <OctetString Value="\P" />
Identifier 0101000200FF: <OctetString Value="\ISKIE5TA11200246" />
Signature 0101000200FF: <OctetString Value="77E36268...511AD1E1" />
Identifier 0106000200FF: <OctetString Value="\ISKIE5TB03200016" />
Signature 0106000200FF: <OctetString Value="0CA3D888...A43BAD6" />
Identifier 0100000200FF: <OctetString Value="\ISKIE5TC05200091" />
Signature 0100000200FF: <OctetString Value="B674A93E...5D503907" />
Identifier 0107000200FF: <OctetString Value="\ISKIE5TK05200153" />
Signature 0107000200FF: <OctetString Value="37F51A30...20FA9011" />
Identifier 0105000200FF: <OctetString Value="\ISKIE5TR10200148" />
Signature 0105000200FF: <OctetString Value="966BC765...9A3BB93F" />
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_2, SECURITY_ACTIVATE
KEY_TRANSFER, KEY_AGREEMENT
CERTIFICATES, COMPRESSION