

Certification No. 1181

This is to certify that the metering equipment identified as:

Type: JAM2000

Mgmt. LDN: SAP = 1, "45414131303130354A414D325F303031" (EAA10105JAM2_001)

manufactured by:

Electronic Afzar Azma

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

- CTT version: CTT version 2.4
- Licensed to: Electronic_Afzar (3/16/2011)
- COSEM object definitions file version: Object_defs_v2.1_released_101104.dat

Test performed	Communication profile	Opening mode	Application context	Date and time	Digital signature of the test report
Test 1	3-layer HDLC	DIRECT_HDLC	LN	23 rd May 2011	80CDA0428EBD130CFA0C3DB67A47D691
Test 2	3-layer HDLC	MODE_E	LN	23 rd May 2011	03B68EF30A28424347C36B3A7B602127

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: <http://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. 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: Geneva, the 24th May 2011



General Secretary

Certification No. 1976

This is to certify that the metering equipment identified as:

Type: JAM2000(FID2)

Mgmt. Logical Device Name: SAP = 1 is "454141303031303530333030323039" (EAA0010503000209)

Manufactured by: Electronic Afzar Azma

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

- CTT version: CTT 3.0 standard edition, 64bits (109)
- Licensed to: Electronic_Afzar_Azma (2/23/2016)
- COSEM object definitions file version: Object_defs_v3.2_released_180306.dat
- Media identifier(s): Abstract, Electricity

Tests	Comm. profile & opening mode	Application contexts	Security features	Date and time	Test Result hash value
Test 1 optical	HDLC, DIRECT_HDLC	LONG_NAMES	—	29-MAY-2018 22:38:15	B222981FDC462240611A4227016D4C5C0E DF52F38CD3EBA5B13336BFC985A7A1
Test 2 optical		LONG_NAMES, LONG_NAMES_ WITH_CIPHERING	ACTIVATE_SECURITY_POLICY GENERAL_GLO_CIPHERING KEY_TRANSFER	29-MAY-2018 23:13:28	AA72AB419A416F7E238D38EA13F18674CF2 97C8B2B1FCF82593DFF23346F201F
Test 3 optical			ACTIVATE_SECURITY_POLICY GENERAL_GLO_CIPHERING KEY_TRANSFER	31-MAY-2018 00:34:29	F977A04487C5438AA6D0E60B39F777125CA 408938643AA60511947E563D88B99
Test 4 optical			ACTIVATE_SECURITY_POLICY GENERAL_DED_CIPHERING GENERAL_GLO_CIPHERING KEY_TRANSFER	31-MAY-2018 01:19:02	05770DD2EB2558A0DDE1A3A721C23CED4C AA67C5E1B2DAD65EA77AD24F2C21A0
Test 5 optical			YGENERAL_DED_CIPHERING GENERAL_GLO_CIPHERING	01-JUN-2018 09:46:11	C68C1E6787812F4BB1B0FAD1EF4F495E1E8 40787B2EAC296D2A90C655FDCCDB5
Test 6 optical			ACTIVATE_SECURITY_POLICY GENERAL_GLO_CIPHERING KEY_TRANSFER	31-MAY-2018 08:55:47	4EB5F2D7C05F35C7401D2960EAD2729698E 6295BC52AC8AC4C93E9DB3EE0B685
Test 7 optical			ACTIVATE_SECURITY_POLICY GENERAL_DED_CIPHERING GENERAL_GLO_CIPHERING KEY_TRANSFER	31-MAY-2018 08:08:11	88EE4231637094E867692F94FF0943AD7DA EEE99B0159D5774A982A7407BA510
Test 8 optical			ACTIVATE_SECURITY_POLICY GENERAL_GLO_CIPHERING KEY_TRANSFER	31-MAY-2018 13:08:44	AE6A4D89D019677D7715A6594C876D97EB B91EE2DC1FB295C5C5EABB40A53724
Test 9 optical			ACTIVATE_SECURITY_POLICY GENERAL_DED_CIPHERING GENERAL_GLO_CIPHERING KEY_TRANSFER	31-MAY-2018 09:34:29	9311D7DC5DE07E6F4C0BD14D0C61364574 19BE1AD3531D0341CAED9061D976FD
Test 10 optical			HDLC, MODE_E	ACTIVATE_SECURITY_POLICY GENERAL_GLO_CIPHERING KEY_TRANSFER	31-MAY-2018 18:43:02
Test 11 optical	ACTIVATE_SECURITY_POLICY GENERAL_DED_CIPHERING GENERAL_GLO_CIPHERING KEY_TRANSFER	31-MAY-2018 15:49:58		3E100E93824BDF1499F758D3CE12B2FDA01 BC5F005080C38EAD1DA2644CC568D	

Test 12 RS485	HDLC, DIRECT_HDLC		ACTIVATE_SECURITY_POLICY GENERAL_GLO_CIPHERING KEY_TRANSFER	31-MAY-2018 21:51:54	9DA44651CB46A6330393BEC583FA75C7EF6 DA9F99503264AB9C2F8AF42CFC692
Test 13 RS485			ACTIVATE_SECURITY_POLICY GENERAL_DED_CIPHERING GENERAL_GLO_CIPHERING KEY_TRANSFER	31-MAY-2018 21:23:56	220737C0D7E7239D7BBAA97D6F5D64FAD6 C105B4DE108722CF110B27E292FAF0
Test 14 RS485			GENERAL_DED_CIPHERING GENERAL_GLO_CIPHERING	06-JUN-2018 04:19:17	E8A628BD8E4780CD1CEC1AC85326A6670E 07A5F4617C71BD1E78D5BBEC0B5EE7
Test 15 TCP	TCP		ACTIVATE_SECURITY_POLICY GENERAL_GLO_CIPHERING KEY_TRANSFER	29-MAY-2018 01:30:08	6F77736EC5CF1C44749CBB1E5EA0D1E93F3 21F740682FA8A36017C0B221569B4
Test 16 TCP			ACTIVATE_SECURITY_POLICY GENERAL_DED_CIPHERING GENERAL_GLO_CIPHERING KEY_TRANSFER	27-MAY-2018 01:33:15	9BD6D1A6683031D76B6DB801513CC7980D 2F471D1B35EBFD2265AA21FB1450D
Test 17 TCP			GENERAL_DED_CIPHERING GENERAL_GLO_CIPHERING KEY_TRANSFER	04-JUN-2018 10:53:03	C407389610EA970415EEBDFFB16E86C5D89 B37683B908A8CFE4B3377E921C85E

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Date: Zug, the 13th June 2018

A handwritten signature in black ink, appearing to read 'Gyöző Kmethy'.

Gyöző Kmethy
President

Certification No. 1799

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 1st March 2017

A handwritten signature in black ink, appearing to read 'Gyöző Kmethy', with a large, sweeping flourish extending from the end of the signature.

Gyöző Kmethy
President