



CERTIFICATE OF COMPLIANCE

Certificate N°:	2586	Issue date:	June 30th, 2021
Applicant:	Energy Max Company Limited (Head Office)	Issued to:	Energy Max Company Limited (Head Office)
	48/124-125,48/126-127 Moo 6 Bang Kruai - Sai Noi Rd. Bangrakyai-Bangbuathong Thailand		48/124-125,48/126-127 Moo 6 Bang Kruai - Sai Noi Rd. Bangrakyai-Bangbuathong Thailand

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



PRODUCT

Model:	EMS
Type:	EMS33T(I) Id=30000001 S=207020A8,
Firmware ID:	Id=31000003 S=78DADED6
Mgmt LDN (SAP = 1):	"454D5333303032303231323030303031" (EMS3002021200001)
Manufacturer:	Energy Max Company Limited (Head Office)
Media Identifiers:	Abstract, Electricity

CONFORMANCE SPECIFICATION

COSEM IF Classes and OBIS Codes:	Blue Book Ed. 14
DLMS/COSEM Protocol:	Green Book Ed. 10

TEST TOOL & SPEC.

Test Specification:	Yellow Book Ed. 8
Test Tool Version:	Standard 3.1
Test Tool Licensee:	Shenzhen Kaifa Technology (Chengdu) Co., Ltd.
COSEM Object definition file:	Object_defs_v3.6_Released_20200825.dat
Communication profiles:	HDLC, DIRECT_HDLC

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 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.



CERTIFICATE OF COMPLIANCE

Test Report N°: 2586

Test File: BerylCTTPP20210528_3P3W_success tested with CTT 3.1 standard edition, release 108, update 3

* Identification *

```
Identification = {
  Manufacturer = "\Energy Max Co.,Ltd."
  FLAGid = "\EMS"
  Type = "\EMS33T(I)"
  IUTisModule = FALSE
  SerialNr = "\2021200001"
  Comment = "\Optical Direct HDLC"
  Comment = "\Application Context:LN-With-Ciphring"
  Comment = "\Authenthentication mechanisim:GMAC"
  Comment = "\USE Dedicated key:False"
  Applicant = "\Energy Max tester"
}
```

* Summary *

TYPE	TOTAL	SKIPPED	INAPPLICABLE	INCONCLUSIVE	PASSED	FAILED
HDLC	34	0	1	0	33	0
APPL	72	0	18	0	54	0
SecMsg	15	0	6	0	9	0
COSEM	3737	0	6	56	3675	0
SymKey	21	0	8	0	13	0
DP	0	0	0	0	0	0
GBT		All (No association with the required properties)				
PubCert		All (No ciphered association with the required properties)				
SecPol	5	0	2	0	3	0

Communication profile: HDLC

Application context names: LONG_NAMES, LONG_NAMES_WITH_CIPHERING

Authentication mechanisms: NO_SECURITY, LOW_LEVEL_SECURITY, HIGH_LEVEL_SECURITY_GMAC

ACSE and xDLMS features: ACTION, GET, MULTIPLE_REFERENCES,RLRQ_RLRE, SELECTIVE_ACCESS, SERVICE_SPECIFIC_BLOCK_TRANSFER, SET

Security features: GENERAL_CIPHERING_WITH_IDENTIFIED_KEY, GENERAL_GLO_CIPHERING, SUITE_0, SECURITY_ACTIVATE, KEY_TRANSFER

Data protection features: (not collected)

Logical device(s) found: SAP = 1 is "454D5333303032303231323030303031" (EMS3002021200001)

Active firmware(s): Id=30000001 S=207020A8, Id=31000003 S=78DADED6

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),40,41,42,44, 45,47(1),48,64,71

COSEM classes found but not tested: (none)