# DLMS®

# CERTIFICATE OF COMPLIANCE

**Certificate N°:** 2719

**Applicant:** Basic Electronics Company Limited

Al Khaldiah District, Dammam, Kingdom of Saudi Arabia

1402-Dammam
Saudi Arabia

**Issue date:** March 1st, 2022

**Issued to:** Basic Electronics Company Limited

Al Khaldiah District, Dammam, Kingdom of Saudi Arabia

1402-Dammam
Saudi Arabia

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

**DLMS®**

## PRODUCT

| | |
|---|---|
| Model: | BE3160WC |
| Type: | BE3160WC |
| Firmware ID: | Id=BE3160WC V=04.00 |
| Mgmt LDN (SAP = 1): | "4153483232323030373030303031303230" (ASH2220700001020) |
| Manufacturer: | Basic Electronics Company Limited |
| 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: | CTT 4.1 |
| Test Tool Licensee: | Hangzhou Meteronic Technology Co., Ltd. |
| COSEM Object definition file: | Object_defs_v14.0_Released_211011.dat |
| Communication profiles: | HDLC, TCP |

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*Test File: BE3160WC-HDLC tested with CTT 4.1, release 100*

```
*********************
* Identification *
*********************

Identification = {
  Applicant = "\Basic Electronics Company Limited"
  FLAGid = "\ASH"
  Manufacturer = "\Basic Electronics Company Limited"
  Type = "\BE3160WC"
  ConfigurationId = "\00001020"
  SerialNr = "\00001020"
}
***************
* Summary *
***************
```

| TEST SUITE | TOTAL | PASSED | FAILED |
|------------|-------|--------|--------|
| HDLC | 35 | 35 | 0 |
| APPL | 52 | 52 | 0 |
| SecMsg | 6 | 6 | 0 |
| COSEM | 3283 | 3283 | 0 |
| DP | 0 | 0 | 0 |
| SymKey | 9 | 9 | 0 |
| SecPol | 6 | 6 | 0 |

Communication profile: HDLC

Logical device(s) found: SAP = 1 is "415348323232303730303030303031303230" (ASH2220700001020)
Active firmware(s): Id=BE3160WC V=04.00

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
SERVICE_SPECIFIC_BLOCK_TRANSFER
SET

Security features:
SERVICE_SPECIFIC_DED_CIPHERING
SERVICE_SPECIFIC_GLO_CIPHERING
SUITE_0,
SECURITY_ACTIVATE,
KEY_TRANSFER

COSEM classes tested: 1,3,4,7(1),8,11,15(2),17,18,19,20, 23,41,42,64(1),70

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*Test File: BE3160WC-MODE tested with CTT 4.1, release 100*

```
**********************
* Identification *
**********************
Identification = {
  Applicant = "\Basic Electronics Company Limited"
  FLAGid = "\ASH"
  Manufacturer = "\Basic Electronics Company Limited"
  Type = "\BE3160WC"
  ConfigurationId = "\00001020"
  SerialNr = "\00001020"
}
****************
* Summary *
****************
```

| TEST SUITE | TOTAL | PASSED | FAILED |
|------------|-------|--------|--------|
| APPL | 52 | 52 | 0 |
| SecMsg | 6 | 6 | 0 |
| COSEM | 3283 | 3283 | 0 |
| DP | 0 | 0 | 0 |
| SymKey | 9 | 9 | 0 |
| SecPol | 6 | 6 | 0 |

| | |
|---|---|
| Communication profile: | HDLC |
| Logical device(s) found: | SAP = 1 is "4153483232323030373030303031303230" (ASH2220700001020) |
| Active firmware(s): | Id=BE3160WC V=04.00 |
| Application context names: | LONG_NAMES<br>LONG_NAMES_WITH_CIPHERING |
| Authentication mechanisms: | NO_SECURITY<br>LOW_LEVEL_SECURITY<br>HIGH_LEVEL_SECURITY_GMAC |
| ACSE and xDLMS features: | ACTION<br>GET<br>SERVICE_SPECIFIC_BLOCK_TRANSFER<br>SET |
| Security features: | SERVICE_SPECIFIC_DED_CIPHERING<br>SERVICE_SPECIFIC_GLO_CIPHERING<br>SUITE_0,<br>SECURITY_ACTIVATE,<br>KEY_TRANSFER |
| COSEM classes tested: | 1,3,4,7(1),8,11,15(2),17,18,19,20, 23,41,42,64(1),70 |

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# CERTIFICATE OF COMPLIANCE

**Certificate Nº: 2719**

*Test File: BE3160WC-TCP tested with CTT 4.1, release 100*

```
*********************
* Identification *
*********************
```

Identification = {
  Applicant = "\Basic Electronics Company Limited"
  FLAGid = "\ASH"
  Manufacturer = "\Basic Electronics Company Limited"
  Type = "\BE3160WC"
  ConfigurationId = "\00001020"
  SerialNr = "\00001020"
}

```
****************
* Summary *
****************
```

| TEST SUITE | TOTAL | PASSED | FAILED |
|------------|-------|--------|--------|
| APPL | 57 | 57 | 0 |
| SecMsg | 6 | 6 | 0 |
| COSEM | 3283 | 3283 | 0 |
| DP | 0 | 0 | 0 |
| SymKey | 9 | 9 | 0 |
| SecPol | 6 | 6 | 0 |

| | |
|---|---|
| Communication profile: | TCP |
| Logical device(s) found: (ASH2220700001020) | SAP = 1 is "415348323232303730303030031303230" |
| Active firmware(s): | Id=BE3160WC V=04.00 |
| Application context names: | LONG_NAMES<br>LONG_NAMES_WITH_CIPHERING |
| Authentication mechanisms: | NO_SECURITY<br>LOW_LEVEL_SECURITY<br>HIGH_LEVEL_SECURITY_GMAC |
| ACSE and xDLMS features: | ACTION<br>GET<br>RLRQ_RLRE<br>SERVICE_SPECIFIC_BLOCK_TRANSFER<br>SET |
| Security features: | SERVICE_SPECIFIC_DED_CIPHERING<br>SERVICE_SPECIFIC_GLO_CIPHERING<br>SUITE_0,<br>SECURITY_ACTIVATE,<br>KEY_TRANSFER |
| COSEM classes tested: | 1,3,4,7(1),8,11,15(2),17,18,19,20, 23,41,42,64(1),70 |