



**NEMO-72Le
NEMO-D4Le**

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1. BACnet Protocol Implementation Conformance Statement

Date: March, 30th 2012
Vendor Name: IME
Product Name: NEMO D4L+
Product Model Number: N.A.
Applications Software Version: 1
Firmware Revision: N.A.
BACnet Protocol Revision: 1.4 (ANSI/ASHRAE 135/2004)
Multifunction meter

BACnet Standardized Device Profile (Annex L):

BACnet Application Specific Controller (B-ASC)

List all BACnet Interoperability Building Blocks Supported (Annex K):

Data Sharing-ReadProperty-B (DS-RP-B)
Data Sharing-ReadPropertyMultiple-B (DS-RPM-B)
Data Sharing-WriteProperty-B (DS-WP-B)
Device Management-Dynamic Device Binding-B (DM-DDB-B)
Device Management-Dynamic Object Binding-B (DM-DOB-B)
Device Communication Control (DM-DCC-B)

Segmentation Capability:

Segmentation not supported

Standard Object Types Supported:

No dynamic Creation or Deletion supported
No proprietary object type supported

Device Object	
Optional Properties Supported	None
Standard Properties Used In a Non-standard Way	None
Proprietary Properties Supported	None
Writable Properties	Object_Identifier
	Object_Name
	Object_Name
	Number_Of_APDU_Retries
	APDU_Timeout

Analog Input Objects	
Optional Properties Supported	Description
Standard Properties Used In a Non-standard Way	None
Proprietary Properties Supported	None
Writable Properties	None

MultiState Input Objects	
Optional Properties Supported	Description
Standard Properties Used In a Non-standard Way	None
Proprietary Properties Supported	None
Writable Properties	None

Binary Value Objects	
Optional Properties Supported	Description
Standard Properties Used In a Non-standard Way	None
Proprietary Properties Supported	None
Writable Properties	Present_Value

Analog Value Objects	
Optional Properties Supported	Description
Standard Properties Used In a Non-standard Way	None
Proprietary Properties Supported	None
Writable Properties	Present_Value

Binary Input Objects	None
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Data Link Layer Options:

BACnet MS/TP master (clause 9)
Supported baudrates: 9600, 19200, 38400, 76800

Device Address Binding:

Static device binding is not supported. (No client functionality is included).

Character Sets Supported:

ANSI X3.4

List of objects

The IME NEMO multifunction meter allows the following data to be read

2. Supported devices

NEMO D4Le - MFD44Bx (Fw version >= 2.000)
NEMO 72Le - MF724Bx (Fw version >= 1.104)

3. OBJECTS

Analogue Inputs

Instance	Description	Base Unit	Notes
0	Phase 1 Voltage	V	
1	Phase 2 Voltage	V	
2	Phase 3 Voltage	V	
3	Phase 1 Current	A	
4	Phase 2 Current	A	
5	Phase 3 Current	A	
6	Neutral Current	A	
7	L1-L2 Voltage	V	
8	L2-L3 Voltage	V	
9	L1-L3 Voltage	V	
10	3-Phase Active Power	W	Unsigned
11	3-Phase Reactive Power	var	Unsigned
12	3-Phase Apparent Power	VA	
13	3-Phase Positive Active Energy L	Wh	
14	3-Phase Positive Active Energy H	MWh	
15	3-Phase Positive Reactive Energy L	varh	
16	3-Phase Positive Reactive Energy H	Mvarh	
17	3-Phase Negative (exported) Active Energy L	Wh	
18	3-Phase Negative (exported) Active Energy H	MWh	
19	3-Phase Negative (exported) Reactive Energy L	varh	
20	3-Phase Negative (exported) Reactive Energy H	Mvarh	
21	3-Phase Power Factor	(2 decimals) e.g. 1.00 => 1.00 0.944 => 0.94 -0.98 => -0.98	Signed
22	Frequency	Hz (1 decimal)	
23	RFU		
24	RFU		
25	Average Power TimeCounter	Minutes	
26	Phase 1 Active Power	W	Unsigned
27	Phase 2 Active Power	W	Unsigned
28	Phase 3 Active Power	W	Unsigned
29	Phase 1 Reactive Power	var	Unsigned
30	Phase 2 Reactive Power	var	Unsigned
31	Phase 3 Reactive Power	var	Unsigned
32	Phase 1 Apparent Power	VA	
33	Phase 2 Apparent Power	VA	
34	Phase 3 Apparent Power	VA	
35	Phase 1 Power Factor	x.yy (2 decimals)	Signed
36	Phase 2 Power Factor	x.yy (2 decimals)	Signed
37	Phase 3 Power Factor	x.yy (2 decimals)	Signed
38	Phase 1 Voltage THD	% (1 decimal)	
39	Phase 2 Voltage THD	% (1 decimal)	
40	Phase 3 Voltage THD	% (1 decimal)	
41	Phase 1 Current THD	% (1 decimal)	
42	Phase 2 Current THD	% (1 decimal)	
43	Phase 3 Current THD	% (1 decimal)	
44	Phase 1 Average Current	A	
45	Phase 2 Average Current	A	
46	Phase 3 Average Current	A	
47	Phase 1 Peak Current	A	
48	Phase 2 Peak Current	A	
49	Phase 3 Peak Current	A	
50	RFU		
51	RFU		

52	RFU		
53	RFU		
54	RFU		
55	RFU		
56	RFU		
57	3-Phase Active Partial Energy L	Wh	
58	3-Phase Active Partial Energy H	MWh	
59	3-Phase Reactive Partial Energy L	varh	
60	3-Phase Reactive Partial Energy H	Mvarh	
61	Run Hour Meter	Hours	
62	3-phase Active Average Power	W	
63	3-phase Reactive Average Power	var	
64	3-phase Apparent Average Power	var	
65	3-phase Active PMD Power	W	
66	3-phase Reactive PMD Power	var	
67	3-phase Apparent PMD Power	VA	

Analog Values

Instance	Description	Unit
0	CT (Current) ratio	No unit
1	PT (Voltage) ratio	x.y (1 decimal) e.g 1.00 => 1.0 6.43 => 6.4 10.00 => 10.0

MultiState Inputs

Instance	Description	Values
0	3-Phase Active Power Sign	0 = positive 1 = negative
1	3-Phase Reactive Power Sign	0 = positive 1 = negative
2	3-Phase Power Factor Sector	0 : PF = 1 or PF = 0 1 = inductive 2 = capacitive
3	Phase 1 Active Power Sign	0 = positive 1 = negative
4	Phase 2 Active Power Sign	0 = positive 1 = negative
5	Phase 3 Active Power Sign	0 = positive 1 = negative
6	Phase 1 Reactive Power Sign	0 = positive 1 = negative
7	Phase 2 Reactive Power Sign	0 = positive 1 = negative
8	Phase 3 Reactive Power Sign	0 = positive 1 = negative

Binary Values

Instance	Description	Notes
0	Reset Hour Meter	Write-only: write 1 to reset hour meter
1	Reset Maximum Powers	Write-only: write 1 to reset average and max. powers
2	Not used	
3	Reset peak max. current	Write-only: write 1 to reset average and max. current
4	Not used	
5	Reset Active Partial Energy	Write-only: write 1 to reset all partial energy registers
6	Not used	