Life Is On | Eurotherm by Schneider Electric

EPC3000

Programmable Controller

- Process inputs are fast and accurate, with exceptional thermal stability, aiding precise and consistent control over long periods without calibration drift.
- Eurotherm's first controller to be designed and certified to meet the stringent cybersecurity requirements of Achilles® Communications Robustness Testing Level 1.

Protocol Implementation Conformance Statement

Date	9 October, 2018
Vendor name	Schneider Electric
Vendor ID	10
Website	www.eurotherm.com
Range name	EPC3000 Programmable Controller
Product name	EPC3016/EPC3008/EPC3004

Application Software Version:	V3.02
Firmware Revision:	V3.02
BACnet Protocol Revision:	14

Product Description

The EPC3000 range of programmable single loop process and temperature controllers maximizes efficiency and repeatability and is certified for cybersecurity communications robustness.

Character Sets Supported

Indicating support for multiple character sets does not imply that they can all be supported simultaneously.

Character Sets	Supported
ISO 10646 (UTF-8)	X
ISO 10646 (USC-2)	
ISO 10646 (USC-4)	
ISO 8859-1	
IBM™ Microsoft™ DBCS	
JIS S 0208	

BACnet Interoperability Building Blocks (BIBBs) Support

Data Sharing

BIBB	Description	B-ASC	Product Conformance
DS-RP-A	ReadProperty-A		
DS-RP-B	ReadProperty-B	X	✓
DS-RPM-A	ReadPropertyMultiple-A		
DS-RPM-B	ReadPropertyMultiple-B		
DS-RPC-A	ReadPropertyCondiftional-A		
DS-RPC-B	ReadPropertyCondiftional-B		
DS-WP-A	WriteProperty-A		
DS-WP-B	WriteProperty-B	X	✓
DS-WPM-A	WritePropertyMultiple-A		
DS-WPM-B	WritePropertyMultiple-B		
DS-COV-A	COV-A		
DS-COV-B	COV-B		
DS-COVP-A	COVP-A		
DS-COVP-B	COVP-B		
DS-COVU-A	COV-Unsolicited-A		
DS-COVU-B	COV-Unsolicited-B		
DS-V-A	View-A		
DS-M-A	Modify-A		
DS-AV-A	Advanced View-A		
DS-AM-A	Advanced Modify-A		

BACnet Interoperability Building Blocks (BIBBs) Support (continued)

Alarm and Events

BIBB	Description	B-ASC	Product Conformance
AE-N-A	Notification A		
AE-N-I-B	Notification Internal-B		
AE-N-E-B	Notification External-B		
AE-ACK-A	ACK-A		
AE-ACK-B	ACK-B		
AE-ASUM-A	Alarm Summary-A		
AE-ASUM-B	Alarm Summary-B		
AE-ESUM-A	Enrolment Summary-A		
AE-ESUM-B	Enrolment Summary-B		
AE-INFO-A	Information-A		
AE-INFO-B	Information-B		
AE-LS-A	LifeSaftey-A		
AE-LS-B	LifeSaftey-B		
AE-AS-A	Alarm Summary-A		
AE-VN-A	View Notification-A		
AE-VM-A	View Modify-A		
AE-AVM-A	Advanced View Modify-A		
AE-AVN-A	Advanced View Notification-A		
AE-ELVM-A	Event Log View and Modify-A		

BACnet Interoperability Building Blocks (BIBBs) Support (continued)

Schedules

BIBB	Description	B-ASC	Product Conformance
SCHED-I-B	Notification A		
SCHED-E-B	Notification Internal-B		
SCH-VM-A	Notification External-B		
SCH-AVM-A	ACK-A		
SCHED-WS-A	ACK-B		
SCHED-WS-I-B	Alarm Summary-A		
SCHED-R-B	Alarm Summary-B		

Trends

BIBB	Description	B-ASC	Product Conformance
T-VMT-I-B	Viewing and Modifying Trends Internal-B		
T-VMT-E-B	Viewing and Modifying Trends External-B		
T-ATR-A	Automated Trend Retrieval-A		
T-ATR-B	Automated Trend Retrieval-B		
T-V-A	View-A		
T-A-A	Archiving-A		
T-AVM-A	Advanced View and Modify-A		

BACnet Interoperability Building Blocks (BIBBs) Support (continued)

Device Management

BIBB	Description	B-ASC	Product Conformance
DM-DDB-A	Dynamic Device Binding-A		
DM-DDB-B	Dynamic Device Binding-B	X	✓
DM-DOB-A	Dynamic Object Binding-A		
DM-DOB-B	Dynamic Object Binding-B	X	✓
DM-DCC-A	Device Communication Control-A		
DM-DCC-B	Device Communication Control-B	X	✓
DM-PT-A	Private Transfer-A		
DM-PT-B	Private Transfer-B		
DM-TM-A	Text Message-A		
DM-TM-B	Text Message-B		
DM-TS-A	Time Synchronization-A		
DM-TS-B	Time Synchronization-B		
DM-UTC-A	UTCTime Synchronization-A		
DM-UTC-B	UTCTime Synchronization-B		
DM-RD-A	Reinitialize Device-A		
DM-RD-B	Reinitialize Device-B		
DM-BR-A	Backup and Restore-A		
DM-BR-B	Backup and Restore-B		
DM-R-A	Restart-A		
DM-R-B	Restart-B		
DM-LM-A	List Manipulation-A		
DM-LM-B	List Manipulation-B		
DM-OCD-A	Object Creation and Deletion-A		
DM-OCD-B	Object Creation and Deletion-B		
DM-VT-A	Virtual Terminal-A		
DM-VT-B	Virtual Terminal-B		
DM-ANM-A	Automatic Network Mapping-A		
DM-ADM-A	Automatic Device Mapping-A		
DM-ATS-A	Automatic Time Synchronization		
DM-MTS-A	Manual Time Synchronization		

Network Management

BIBB	Description	B-ASC	Product Conformance
NM-CE-A	Connection Establishment-A		
NM-CE-B	Connection Establishment-B		
NM-RC-A	Router Configuration-A		
NM-RC-B	Router Configuration-B		

BACnet Standard Object Types Supported

Binary Input Object Instance

Object Identifier	Object name	Description	Active/Inactive text	Access	Notes
Binary Input #1	IO.IO1.Output	Indicates status of IO1 out	ON/OFF	R	2
Binary Input #2	IO.IO2.Output	Indicates status of IO2 out	ON/OFF	R	2
Binary Input #3	IO.OP3.Output	Indicates status of OP3 out	ON/OFF	R	
Binary Input #4	IO.IO4.Output	Indicates status of IO4 out	ON/OFF	R	1,2
Binary Input #5	OptionDIO.D1.Out	Indicates status of D1 out	ON/OFF	R	1,2,3
Binary Input #6	OptionDIO.D2.Out	Indicates status of D2 out	ON/OFF	R	1,2,3
Binary Input #7	OptionDIO.D3.Out	Indicates status of D3 out	ON/OFF	R	1,2,3
Binary Input #8	OptionDIO.D4.Out	Indicates status of D4 out	ON/OFF	R	1,2,3
Binary Input #9	Alarm.1.Output	Alarm 1 Output state	ON/OFF	R	
Binary Input #10	Alarm.2.Output	Alarm 2 Output state	ON/OFF	R	
Binary Input #11	Alarm.3.Output	Alarm 3 Output state	ON/OFF	R	
Binary Input #12	Alarm.4.Output	Alarm 4 Output state	ON/OFF	R	
Binary Input #13	Alarm.5.Output	Alarm 5 Output state	ON/OFF	R	
Binary Input #14	Alarm.6.Output	Alarm 6 Output state	ON/OFF	R	
Binary Input #15	Programmer.Run.Event1	Programmer Event 1	ON/OFF	R	4
Binary Input #16	Programmer.Run.Event2	Programmer Event 2	ON/OFF	R	4
Binary Input #17	Programmer.Run.Event3	Programmer Event 3	ON/OFF	R	4
Binary Input #18	Programmer.Run.Event4	Programmer Event 4	ON/OFF	R	4
Binary Input #19	Programmer.Run.Event5	Programmer Event 5	ON/OFF	R	4
Binary Input #20	Programmer.Run.Event6	Programmer Event 6	ON/OFF	R	4
Binary Input #21	Programmer.Run.Event7	Programmer Event 7	ON/OFF	R	4
Binary Input #22	Programmer.Run.Event8	Programmer Event 8	ON/OFF	R	4

NOTES:

1. Not in service on EPC3016
2. Only in service if hardware is fitted
3. Only in service if configured
4. Only in service if feature enabled

BACnet Standard Object Types Supported (continued)

Analog Input Object Instance

Object Identifier	Object name	Description	Units	Access	Notes
Analog Input #1	AI.1.Main.PV	Analogue Input 1 PV	—	R	
Analog Input #2	AI.2.Main.PV	Analogue Input 2 PV	—	R	1,2,4
Analog Input #3	Alarm.1.Input	Alarm 1 Input	—	R	
Analog Input #4	Alarm.2.Input	Alarm 2 Input	—	R	
Analog Input #5	Alarm.3.Input	Alarm 3 Input	—	R	
Analog Input #6	Alarm.4.Input	Alarm 4 Input	—	R	
Analog Input #7	Alarm.5.Input	Alarm 5 Input	—	R	
Analog Input #8	Alarm.6.Input	Alarm 6 Input	—	R	
Analog Input #9	Loop.Main.WorkingSP	Loop Working Setpoint	—	R	
Analog Input #10	Loop.Main.WorkingOutput	Loop Working Output	%	R	
Analog Input #11	IO.LA.PV	IO LA PV	—	R	
Analog Input #12	IO.LB.PV	IO LB PV	—	R	1
Analog Input #13	Programmer.Run.PSP	Programmer Setpoint	—	R	4
Analog Input #14	Programmer.Run.ProgramTimeLeft	Program Time Remaining	ms	R	4
Analog Input #15	Programmer.Run.SegmentTimeLeft	Segment Time Remaining	ms	R	4
Analog Input #16	Programmer.Run.ProgramCyclesLeft	Program Cycles Remaining	—	R	4
Analog Input #17	Programmer.Run.CurrentProgramNumber	Current Program Number	—	R	4
Analog Input #18	Programmer.Run.SegmentNumber	Current Segment Number	—	R	4
Analog Input #19	Math.1.Out	Math 1 Output	—	R	4
Analog Input #20	Math.2.Out	Math 2 Output	—	R	4
Analog Input #21	Math.3.Out	Math 3 Output	—	R	4
Analog Input #22	Math.4.Out	Math 4 Output	—	R	4
Analog Input #23	Math.5.Out	Math 5 Output	—	R	4
Analog Input #24	Math.6.Out	Math 6 Output	—	R	4
Analog Input #25	Math.7.Out	Math 7 Output	—	R	4
Analog Input #26	Math.8.Out	Math 8 Output	—	R	4

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4. Only in service if feature enabled

BACnet Standard Object Types Supported (continued)

Analog Value Object Instance

Object Identifier	Object name	Description	Units	Access	Notes
Analog Value #1	Alarm.1.Threshold	Alarm 1 Threshold	—	W	
Analog Value #2	Alarm.1.Hysteresis	Alarm 1 Hysteresis	—	W	
Analog Value #3	Alarm.1.Deviation	Alarm 1 Deviation	—	W	
Analog Value #4	Alarm.1.Reference	Alarm 1 Reference	—	W	
Analog Value #5	Alarm.1.Inhibit	Alarm 1 Inhibit	—	W	
Analog Value #6	Alarm.1.Ack	Alarm 1 Ack	—	W	
Analog Value #7	Alarm.2.Threshold	Alarm 2 Threshold	—	W	
Analog Value #8	Alarm.2.Hysteresis	Alarm 2 Hysteresis	—	W	
Analog Value #9	Alarm.2.Deviation	Alarm 2 Deviation	—	W	
Analog Value #10	Alarm.2.Reference	Alarm 2 Reference	—	W	
Analog Value #11	Alarm.2.Inhibit	Alarm 2 Inhibit	—	W	
Analog Value #12	Alarm.2.Ack	Alarm 2 Ack	—	W	
Analog Value #13	Alarm.3.Threshold	Alarm 3 Threshold	—	W	
Analog Value #14	Alarm.3.Hysteresis	Alarm 3 Hysteresis	—	W	
Analog Value #15	Alarm.3.Deviation	Alarm 3 Deviation	—	W	
Analog Value #16	Alarm.3.Reference	Alarm 3 Reference	—	W	
Analog Value #17	Alarm.4.Inhibit	Alarm 4 Inhibit	—	W	
Analog Value #18	Alarm.3.Ack	Alarm 3 Ack	—	W	
Analog Value #19	Alarm.4.Threshold	Alarm 4 Threshold	—	W	
Analog Value #20	Alarm.4.Hysteresis	Alarm 4 Hysteresis	—	W	
Analog Value #21	Alarm.4.Deviation	Alarm 4 Deviation	—	W	
Analog Value #22	Alarm.4.Reference	Alarm 4 Reference	—	W	
Analog Value #23	Alarm.4.Inhibit	Alarm 4 Inhibit	—	W	
Analog Value #24	Alarm.4.Ack	Alarm 4 Ack	—	W	
Analog Value #25	Alarm.5.Threshold	Alarm 5 Threshold	—	W	
Analog Value #26	Alarm.5.Hysteresis	Alarm 5 Hysteresis	—	W	
Analog Value #27	Alarm.5.Deviation	Alarm 5 Deviation	—	W	
Analog Value #28	Alarm.5.Reference	Alarm 5 Reference	—	W	
Analog Value #29	Alarm.5.Inhibit	Alarm 5 Inhibit	—	W	
Analog Value #30	Alarm.5.Ack	Alarm 5 Ack	—	W	
Analog Value #31	Alarm.6.Threshold	Alarm 6 Threshold	—	W	
Analog Value #32	Alarm.6.Hysteresis	Alarm 6 Hysteresis	—	W	
Analog Value #33	Alarm.6.Deviation	Alarm 6 Deviation	—	W	
Analog Value #34	Alarm.6.Reference	Alarm 6 Reference	—	W	
Analog Value #35	Alarm.6.Inhibit	Alarm 6 Inhibit	—	W	
Analog Value #36	Alarm.6.Ack	Alarm 6 Ack	—	W	
Analog Value #37	Loop.Main.PV	Loop PV	—	W	
Analog Value #38	Loop.Main.TargetSP	Loop Target Setpoint	—	W	
Analog Value #39	Loop.Main.AutoMan	Loop Auto/Manual	—	W	
Analog Value #40	Loop.OP.ManualOP	Loop Manual Output	—	W	
Analog Value #41	Loop.PID.Ch1PropBand	Loop Channel 1 Prop Band	—	W	
Analog Value #42	Loop.PID.Ch2PropBand	Loop Channel 2 Prop Band	—	W	

NOTES: See notes 1 to 4 on previous page

BACnet Standard Object Types Supported (continued)

Analog Value Object Instance (continued)

Object Identifier	Object name	Description	Units	Access	Notes
Analog Value #43	Loop.PID.IntegralTime	Loop Integral Time	—	W	
Analog Value #44	Loop.PID.DerivativeTime	Loop Derivative Time	—	W	
Analog Value #45	IO.IO1.PV	IO IO1 PV	—	W	2
Analog Value #46	IO.IO2.PV	IO IO2 PV	—	W	2
Analog Value #47	IO.OP3.PV	IO OP3 PV	—	W	
Analog Value #48	IO.IO4.PV	IO IO4 PV	—	W	1,2
Analog Value #49	OptionDIO.D1.PV	OptionDIO D1 PV	—	W	1
Analog Value #50	OptionDIO.D2.PV	OptionDIO D2 PV	—	W	1
Analog Value #51	OptionDIO.D3.PV	OptionDIO D3 PV	—	W	1
Analog Value #52	OptionDIO.D4.PV	OptionDIO D4 PV	—	W	1
Analog Value #53	RemoteInput.Input	RemoteInput Input	—	W	
Analog Value #54	UserParameter.1.Address	User Parameter 1 Address	—	W	
Analog Value #55	UserParameter.1.Value	User Parameter 1 Value	—	W	
Analog Value #56	UserParameter.2.Address	User Parameter 2 Address	—	W	
Analog Value #57	UserParameter.2.Value	User Parameter 2 Value	—	W	
Analog Value #58	UserParameter.3.Address	User Parameter 3 Address	—	W	
Analog Value #59	UserParameter.3.Value	User Parameter 3 Value	—	W	
Analog Value #60	UserParameter.4.Address	User Parameter 4 Address	—	W	
Analog Value #61	UserParameter.4.Value	User Parameter 4 Value	—	W	
Analog Value #62	UserParameter.5.Address	User Parameter 5 Address	—	W	
Analog Value #63	UserParameter.5.Value	User Parameter 5 Value	—	W	
Analog Value #64	UserParameter.6.Address	User Parameter 6 Address	—	W	
Analog Value #65	UserParameter.6.Value	User Parameter 6 Value	—	W	
Analog Value #66	UserParameter.7.Address	User Parameter 7 Address	—	W	
Analog Value #67	UserParameter.7.Value	User parameter 7 Value	—	W	
Analog Value #68	UserParameter.8.Address	User parameter 8 Address	—	W	
Analog Value #69	UserParameter.8.Value	User parameter 8 Value	—	W	
Analog Value #70	UserParameter.9.Address	User parameter 9 Address	—	W	
Analog Value #71	UserParameter.9.Value	User parameter 9 Value	—	W	
Analog Value #72	UserParameter.10.Address	User parameter 10 Address	—	W	
Analog Value #73	UserParameter.10.Value	User parameter 10 Value	—	W	
Analog Value #74	UserParameter.11.Address	User parameter 11 Address	—	W	
Analog Value #75	UserParameter.11.Value	User parameter 11 Value	—	W	
Analog Value #76	UserParameter.12.Address	User parameter 12 Address	—	W	
Analog Value #77	UserParameter.12.Value	User parameter 12 Value	—	W	
Analog Value #78	UserParameter.13.Address	User parameter 13 Address	—	W	
Analog Value #79	UserParameter.13.Value	User parameter 13 Value	—	W	
Analog Value #80	UserParameter.14.Address	User parameter 14 Address	—	W	
Analog Value #81	UserParameter.14.Value	User parameter 14 Value	—	W	
Analog Value #82	UserParameter.15.Address	User parameter 15 Address	—	W	
Analog Value #83	UserParameter.15.Value	User parameter 15 Value	—	W	
Analog Value #84	UserParameter.16Address	User parameter 16 Address	—	W	

NOTES: See notes 1 to 4 on following page

BACnet Standard Object Types Supported (continued)

Analog Value Object Instance (continued)

Object Identifier	Object name	Description	Units	Access	Notes
Analog Value #85	UserParameter.16.Value	User Parameter 16 Value	—	W	
Analog Value #86	UserParameter.17.Address	User Parameter 17 Address	—	W	
Analog Value #87	UserParameter.17.Value	User Parameter 17 Value	—	W	
Analog Value #88	UserParameter.18.Address	User Parameter 18 Address	—	W	
Analog Value #89	UserParameter.18.Value	User Parameter 18 Value	—	W	
Analog Value #90	UserParameter.19.Address	User Parameter 19 Address	—	W	
Analog Value #91	UserParameter.19.Value	User Parameter 19 Value	—	W	
Analog Value #92	UserParameter.20.Address	User Parameter 20 Address	—	W	
Analog Value #93	UserParameter.20.Value	User Parameter 20 Value	—	W	
Analog Value #94	UserParameter.21.Address	User Parameter 21 Address	—	W	
Analog Value #95	UserParameter.21.Value	User Parameter 21 Value	—	W	
Analog Value #96	UserParameter.22.Address	User Parameter 22 Address	—	W	
Analog Value #97	UserParameter.22.Value	User Parameter 22 Value	—	W	
Analog Value #98	UserParameter.23.Address	User Parameter 23 Address	—	W	
Analog Value #99	UserParameter.23.Value	User Parameter 23 Value	—	W	
Analog Value #100	UserParameter.24.Address	User Parameter 24 Address	—	W	
Analog Value #101	UserParameter.24.Value	User Parameter 24 Value	—	W	
Analog Value #102	UserParameter.25.Address	User Parameter 25 Address	—	W	
Analog Value #103	UserParameter.25.Value	User Parameter 25 Value	—	W	
Analog Value #104	UserParameter.26.Address	User Parameter 26 Address	—	W	
Analog Value #105	UserParameter.26.Value	User Parameter 26 Value	—	W	
Analog Value #106	UserParameter.27.Address	User Parameter 27 Address	—	W	
Analog Value #107	UserParameter.27.Value	User Parameter 27 Value	—	W	
Analog Value #108	UserParameter.28.Address	User Parameter 28 Address	—	W	
Analog Value #109	UserParameter.28.Value	User Parameter 28 Value	—	W	
Analog Value #110	UserParameter.29.Address	User Parameter 29 Address	—	W	
Analog Value #111	UserParameter.29.Value	User Parameter 29 Value	—	W	
Analog Value #112	UserParameter.30.Address	User Parameter 30 Address	—	W	
Analog Value #113	UserParameter.30.Value	User Parameter 30 Value	—	W	
Analog Value #114	Programmer.Run.ProgramNumber	Program Number	—	W	4
Analog Value #115	Programmer.Run.ProgramMode	Program Mode	—	W	4
Analog Value #116	Programmer.Run.ProgramAdvance	Program Advance	—	W	4

NOTES:

1. Not in service on EPC3016
2. Only in service if hardware is fitted
3. Only in service if configured
4. Only in service if feature enabled

BACnet Standard Object Types Supported (continued)

Multi State Input Object Instance

Object Identifier	Object name	Description	Units	Access	Notes
MSI #1	AI.1.PVStatus	AI 1 Status	—	R	
MSI #2	AI.2.PVStatus	AI 2 Status	—	R	1,2,4
MSI #3	Alarm.1.Status	Alarm 1 Status	—	R	
MSI #4	Alarm.2.Status	Alarm 2 Status	—	R	
MSI #5	Alarm.3.Status	Alarm 3 Status	—	R	
MSI #6	Alarm.4.Status	Alarm 4 Status	—	R	
MSI #7	Alarm.5.Status	Alarm 5 Status	—	R	
MSI #8	Alarm.6.Status	Alarm 6 Status	—	R	

NOTES:

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3. Only in service if configured
4. Only in service if feature enabled

BACnet Standard Object Types Supported (continued)

NOTE: For Present Value Access Types, R = Read-only, W = Writeable, C = Commandable

Additional functions

Besides the services of "datasharing" the EPC3000 Programmable Controller provides the following functions:

Full numeric parameters access:

By the use of indirect access, it is possible to read or write any of the internal EPC3000 numeric operator parameters, except 32-bit integer values. It is not possible to write to configuration parameters, or to put the instrument into configuration mode via BACnet communications. Integer values that can be accessed will have a resolution of "1.0".

This functionality is provided by the Analog Value parameter objects:

UserParameter.n.Address, UserParameter.n.Value.(n = 1 to 30)

Reading a parameter:

Write the Modbus address of the parameter to the present value property of the address object.

The current value of the parameter can be read in the present value property of the value object.

Writing a parameter:

Write the Modbus address of the parameter to the present value property of the address object.

Write the new value in the present value property of the value object.

EPC3000 Modbus address map can be found in the Eurotherm iTools help file by navigating to:

Help>Device Help>Scada from iTools Engineering Studio when connected to an instrument or loading the relevant clone file (New File>EPC3000>EPC30xx Vx.xx).

iTools can be downloaded for free from the Eurotherm website www.eurotherm.com/itools

Object Properties Supported

Analog Input Object

Property	(R) Required (O) Optional	(R) Read-Only (W) Writable
Object-Identifier	R	R
Object-Name	R	R
Object-Type	R	R
Present-Value	R	W
Description	O	R
Device Type	O	R
Status-Flags	R	R
Event-State	R	R
Reliability	O	R
Out-of-Service	R	W
Units	R	R

Analog Value Object

Property	(R) Required (O) Optional	(R) Read-Only (W) Writable
Object-Identifier	R	R
Object-Name	R	R
Object-Type	R	R
Present-Value	R	W
Description	O	R
Status-Flags	R	R
Event-State	R	R
Out-of-Service	R	W
Units	R	R

Binary Input Object

Property	(R) Required (O) Optional	(R) Read-Only (W) Writable
Object-Identifier	R	R
Object-Name	R	R
Object-Type	R	R
Present-Value	R	W
Description	O	R
Status-Flags	R	R
Event-State	R	R
Out-of-Service	R	W
Polarity	R	R
Reliability	O	R

Object Properties Supported (continued)

Multi State Input Object

Property	(R) Required (O) Optional	(R) Read-Only (W) Writable
Object-Identifier	R	R
Object-Name	R	R
Object-Type	R	R
Present-Value	R	W
Description	O	R
Status-Flags	R	R
Event-State	R	R
Out-of-Service	R	W
Number of States	R	R
State Text	O	R
Reliability	O	R

Device Object

Property	(R) Required (O) Optional	(R) Read-Only (W) Writable
Object-Identifier	R	R
Object-Name	R	R
Object-Type	R	R
System-Status	R	R
Vendor-Name	R	R
Vendor-Identifier	R	R
Model-Name	R	R
Firmware-Revision	R	R
Application-Software-Revision	R	R
Description	O	R
Protocol-Version	R	R
Protocol-Revision	R	R
Protocol-Services-Supported	R	R
Protocol-Object-Types-Supported	R	R
Object-List	R	R
Max-APDU-Length-Accepted	R	R
Segmentation-Supported	R	R
APDU-Timeout	R	R
Number-Of-APDU-Retries	R	R
Device-Address-Binding	R	R
Database-Revision	R	R
Profile-Name	O	R

NOTE:

Object-Name property is a combination of the EPC3000 internal parameters “Type” and “CustomerID”. This property is read only and can only be changed by modifying the CustomerID parameter via iTools or HMI.