

DNP3 Device Profile

Vendor name: Protecta Electronics Ltd.						
Device name: EuroProt+ series						
Highest DNP Level supported: for requests: DNP-L2 for response: DNP-L2	Device function: [] master [x] slave					
	est DNP Levels Supported (the complete list is described in the attached table): bit Binary Input types supported (g3, g4), CROB (g12): multiple object command					
Maximum Data Link Frame Size (octets): Transmitted: 292 (maximum, configurable) Received: 292 (maximum, configurable)	Maximum Application Fragment Size (octets): Transmitted: 2048 (maximum, configurable) Received: 2048 (maximum, configurable)					
Maximum Data Link Re-tries: None Fixed at 3 Configurable 	Maximum Application Layer Re-tries: [x] None [] Fixed at [] Configurable					
Requires Data Link Layer Confirmation: Never Always Sometimes If 'Sometimes', when? Configurable If 'Configurable', how? by configuration software EuroCAL 	P (revision 40)					
Requires Application Layer Confirmation: Never Always (not recommended) When reporting Event Data (Slave devices only) When sending multi-fragment responses (Slave devices only) Sometimes If 'Sometimes', when? Configurable If 'Configurable', how? 						
Timeouts while waiting for: Data Link Confirm []None [x]Fixed at <u>l sec</u> Complete Appl. Fragment [x]None []Fixed at Application Confirm []None []Fixed at Complete Appl. Response [x]None []Fixed at	[] Variable [] Configurable					
Sends/Executes Control Operations: WRITE Binary Outputs [x] Never [] Always SELECT/OPERATE [] Never [x] Always DIRECT OPERATE [] Never [x] Always DIRECT OPERATE - NO ACK [] Never [x] Always Count > 1 [x] Never [x] Always Pulse On [] Never [x] Always Pulse Off [x] Never [] Always Latch On [] Never [x] Always Latch Off [] Never [x] Always Queue [x] Never [] Always Clear Queue [x] Never [] Always Note: all other parameters are ignored. [] Always	[] Sometimes [] Configurable [] Sometimes [] Configurable					
Reports Binary Input Change Events when no specific variation requested: [] Never [x] Only time-tagged [] Only non-time-tagged [] Configurable to send both, one or the other	Reports time-tagged Binary Input Change Events when no specific variation requested: [] Never [x] Binary Input Change With Time [] Binary Input Change With Relative Time [] Configurable (attach explanation)					
Sends Unsolicited Responses: [x] Never [] Configurable [] Only certain objects [] Sometimes	Sends Static Data in Unsolicited Responses: [x] Never [] When Device Restarts [] When Status Flags Change					
Default Counter Object/Variation: Default Object: 20 Default Variation: 01	Counters Roll Over at: 32 Bits					
Sends Multi Fragment Responses: Yes						

Implementation Table								
		OBJECT	REC	REOUEST		RESPONSE		
Group Number	Variation Number	Description	Function Codes (dec)	Qualifier Codes (hex)	Function Codes (dec)	Qualifier Codes (hex)		
1	0	Binary Input—Any Variation	1	0,1,6				
1	1	Binary Input—Packed format	1	0,1,6	129	0,1		
1	2	Binary Input—With flags	1	0,1,6	129	0,1		
2	0	Binary Input Event—Any Variation	1	6,7,8				
2	1	Binary Input Event—Without time	1	6,7,8	129	17,28		
2	2	Binary Input Event—With absolute time	1	6.7.8	129	17.28		
2	3	Binary Input Event-With relative time	_					
3	0	Double-bit Binary Input—Any Variation	1	0,1,6				
3	1	Double-bit Binary Input—Packed format	1	0,1,6	129	0,1		
3	2	Double-bit Binary Input—With flags	1	0,1,6	129	0,1		
4	0	Double-bit Binary Input Event—Any Variation	1	6,7,8				
4	1	Double-bit Binary Input Event—Without time						
4	2	Double-bit Binary Input Event-With absolute time	1	6,7,8	129	17,28		
4	3	Double-bit Binary Input Event—With relative time						
10	0	Binary Output—Any Variation						
10	2	Binary Output—Output status with flags						
12	1	Binary Command (CROB)	3,4,5,6	17,28	129	echo of request		
20	0	Counter—Any Variation	1	0,1,6				
20	1	Counter—32-bit with flag	1	0,1,6	129	0,1		
20	2	Counter—16-bit with flag						
20	5	Counter—32-bit without flag	1	0,1,6	129	0,1		
20	6	Counter—16-bit without flag						
22	0	Counter Event—Any Variation	1	6,7,8				
22	1	Counter Event—32-bit with flag	1	6,7,8	129	17,28		
22	2	Counter Event—16-bit with flag						
30	0	Analog Input—Any Variation	1	0,1,6				
30	1	Analog Input—32-bit with flag						
30	2	Analog Input—16-bit with flag						
30	3	Analog Input—32-bit without flag						
30	4	Analog Input—16-bit without flag						
30	5	Analog Input-Single-precision float-point with flag	1	0,1,6	129	0,1		
32	0	Analog Input Event—Any Variation	1	6,7,8				
32	1	Analog Input Event—32-bit without time						
32	2	Analog Input Event—16-bit without time						
32	5	Analog Input Event—Single-precision float-point with flag	1	6,7,8	129	17,28		
40	0	Analog Output Status—Any Variation						
40	2	Analog Output Status—16-bit with flag						
41	2	Analog Output—16-bit (AOB)						
50	1	Time and Date—Absolute time	2	7 (lim. qty=1)				
60	1	Class Objects—Class 0 data	1	6				
60	2	Class Objects—Class 1 data	1	6,7,8				
60	3	Class Objects—Class 2 data	1	6,7,8				
60	4	Class Objects—Class 3 data	1	6,7,8				
80	1	Internal Indications—Packed format	2	0 (ix=7)				