

Driver Mauell DNP 3.0 v1.0 Slave – Device Profile

DNP V3.00

DEVICE PROFILE DOCUMENT

This document must be accompanied by a table having the following headings:

Object Group	Request Function Codes	Response Function Codes
Object Variation	Request Qualifiers	Response Qualifiers
Object Name (optional)		

Vendor Name: **Helmut Mauell do Brasil Ind. e Com. Ltda.**

Device Name: **Driver DNP 3.0**

Highest DNP Level Supported:

For Requests **Level 2**

For Responses **Level 2**

Device Function:

Master Slave

Notable objects, functions, and/or qualifiers supported in addition to the Highest DNP Levels Supported (the complete list is described in the attached table).

Maximum Data Link Frame Size (octets):

Transmitted 292
Received (must be 292)

Maximum Application Fragment Size (octets):

Transmitted 2048
Received 2048

Maximum Data Link Re-tries:

None
 Fixed at
 Configurable, range 0 to 10

Maximum Application Layer Re-tries:

None
 Configurable, range 0 to 10

Requires Data Link Layer Confirmation:

Never
 Always
 Sometimes
 Configurable

Requires Application Layer Confirmation:

- Never
- Always (not recommended)
- When reporting Event Data (Slave devices only)
- When sending multi-fragment responses (Slave devices only)
- Sometimes
- Configurable If 'Configurable', how? _____

Timeouts while waiting for:

- | | | | | |
|-------------------------|--|---|-----------------------------------|--|
| Data Link Confirm | <input type="checkbox"/> None | <input type="checkbox"/> Fixed at _____ | <input type="checkbox"/> Variable | <input checked="" type="checkbox"/> Configurable |
| Complete Appl. Fragment | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Fixed at _____ | <input type="checkbox"/> Variable | <input type="checkbox"/> Configurable |
| Application Confirm | <input type="checkbox"/> None | <input type="checkbox"/> Fixed at _____ | <input type="checkbox"/> Variable | <input checked="" type="checkbox"/> Configurable |
| Complete Appl. Response | <input checked="" type="checkbox"/> None | <input type="checkbox"/> Fixed at _____ | <input type="checkbox"/> Variable | <input type="checkbox"/> Configurable |

Others

Attach explanation if 'Variable' or 'Configurable' was checked for any timeout

Sends/Executes Control Operations:

- | | | | | |
|-------------------------|---|---------------------------------|------------------------------------|--|
| WRITE Binary Outputs | <input type="checkbox"/> Never | <input type="checkbox"/> Always | <input type="checkbox"/> Sometimes | <input checked="" type="checkbox"/> Configurable |
| SELECT/OPERATE | <input checked="" type="checkbox"/> Never | <input type="checkbox"/> Always | <input type="checkbox"/> Sometimes | <input type="checkbox"/> Configurable |
| DIRECT OPERATE | <input type="checkbox"/> Never | <input type="checkbox"/> Always | <input type="checkbox"/> Sometimes | <input checked="" type="checkbox"/> Configurable |
| DIRECT OPERATE - NO ACK | <input type="checkbox"/> Never | <input type="checkbox"/> Always | <input type="checkbox"/> Sometimes | <input checked="" type="checkbox"/> Configurable |
| Count > 1 | <input checked="" type="checkbox"/> Never | <input type="checkbox"/> Always | <input type="checkbox"/> Sometimes | <input type="checkbox"/> Configurable |
| Pulse On | <input type="checkbox"/> Never | <input type="checkbox"/> Always | <input type="checkbox"/> Sometimes | <input checked="" type="checkbox"/> Configurable |
| Pulse Off | <input type="checkbox"/> Never | <input type="checkbox"/> Always | <input type="checkbox"/> Sometimes | <input checked="" type="checkbox"/> Configurable |
| Latch On | <input checked="" type="checkbox"/> Never | <input type="checkbox"/> Always | <input type="checkbox"/> Sometimes | <input type="checkbox"/> Configurable |
| Latch Off | <input checked="" type="checkbox"/> Never | <input type="checkbox"/> Always | <input type="checkbox"/> Sometimes | <input type="checkbox"/> Configurable |
| Queue | <input checked="" type="checkbox"/> Never | <input type="checkbox"/> Always | <input type="checkbox"/> Sometimes | <input type="checkbox"/> Configurable |
| Clear Queue | <input checked="" type="checkbox"/> Never | <input type="checkbox"/> Always | <input type="checkbox"/> Sometimes | <input type="checkbox"/> Configurable |

Attach explanation if 'Sometimes' or 'Configurable' was checked for any operation.

FILL OUT THE FOLLOWING ITEMS FOR SLAVE DEVICES ONLY:

Reports Binary Input Change Events when no specific variation requested:

- Never
- Only time-tagged
- Only non-time-tagged
- Configurable to send both, one or the other (attach explanation)

Reports time-tagged Binary Input Change Events when no specific variation requested:

- Never
- Binary Input Change With Time
- Binary Input Change With Relative Time
- Configurable (attach explanation)

<p>Sends Unsolicited Responses:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Never <input checked="" type="checkbox"/> Configurable (attach explanation) <input type="checkbox"/> Only certain objects <input type="checkbox"/> Sometimes (attach explanation) <input type="checkbox"/> ENABLE/DISABLE UNSOLICITED Function codes supported 	<p>Sends Static Data in Unsolicited Responses:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Never <input type="checkbox"/> When Device Restarts <input type="checkbox"/> When Status Flags Change <p>No other options are permitted.</p>
<p>Default Counter Object/Variation:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> No Counters Reported <input type="checkbox"/> Configurable (attach explanation) <input type="checkbox"/> Default Object _____ Default Variation _____ <input type="checkbox"/> Point-by-point list attached 	<p>Counters Roll Over at:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> No Counters Reported <input type="checkbox"/> Configurable (attach explanation) <input type="checkbox"/> 16 Bits <input type="checkbox"/> 32 Bits <input type="checkbox"/> Other Value _____ <input type="checkbox"/> Point-by-point list attached
<p>Sends Multi-Fragment Responses: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	

Implementation Table

OBJECT			REQUEST (slave must parse)		RESPONSE (master must parse)	
Obj (dec)	Var (dec)	Description	Func Codes (dec)	Qual Codes (hex)	Func Codes (dec)	Qual Codes (hex)
01	00	Binary Input - Any variation (Variation 2)	01	00, 01, 06	129	00, 01
01	01	Binary Input - Packed format	01	00, 01	129	00, 01
01	02	Binary Input - With flags	01	00, 01, 06	129	00, 01
02	00	Binary Input Event - Any variation (Variation 2)	01	00, 01, 06	129	28
02	01	Binary Input Event - Without time	01	00, 01, 06	129	28
02	02	Binary Input Event - With absolute time	01	00, 01, 06	129	28
12	01	Binary Output Command - Control relay output block	05, 06	17	129	17
50	01	Time and Date – Absolut time	01	00, 07	129	00, 07
60	01	Class 0 Data	01	-	129	00, 01
60	02	Class 1 Data	01	-	129	28
60	03	Class 2 Data	01	-	129	28
60	04	Class 3 Data	01	-	129	28
80	01	Internal Indications	02	00	129	00