Anthony Nappa

From: John Nappa [John.Nappa@cncts.com]
Sent: Friday, April 15, 2011 4:58 PM
To: 'Anthony Nappa'
Subject: FW: Ford Gum - DeviceNet Scanner, Ultra 1000, SLC 5/04 Files
Attachments: 2573.RSS; DRVPARAM.PAR; Ford_Gum.dnt

From: Doug Studley [mailto:dstudley@fordgum.com]
Sent: Monday, March 21, 2011 9:38 AM
To: john.nappa@cncts.com
Subject: FW: Ford Gum - DeviceNet Scanner, Ultra 1000, SLC 5/04 Files

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From: John Gajor [mailto:jgajor1@ra.rockwell.com]
Sent: Friday, March 18, 2011 8:42 AM
To: dstudley@fordgum.com
Subject: Ford Gum - DeviceNet Scanner, Ultra 1000, SLC 5/04 Files

Doug,

Hope things are going well with the machine. Attached below are the files that I uploaded from the PLC, DeviceNet Scanner Card, and Ultra 100 Series Drive. The SLC 5/04 program (.RSS) file was uploaded so it does not contain any comments. Also below are the Ultra Series DeviceNet Parameters that had to be manually configured over DeviceNet. Thanks.

Ultra Series DeviceNet parameters

179 – DNet I/O Format – Type 4
183 – Logic CMD Mask – Follower Enable / Fault Reset / Enable (select these)
185 –Enable Behavior - Hardware or DNet

Best regards,

John Gajor
Field Support Engineer

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RSNetWorx for DeviceNet

Filename:	D:\Customers\Ford Gum\Current Files\Ford_Gum.dnt

Network Properties

Name:	Ford_Gum
Description:	
Path:	[None]

Device Properties

Address 00, 1747-SDN Scanner Module | Address 03, Ultra 100 2.0kW

Address 00, 1747-SDN Scanner Module

Name:	1747-SDN Scanner Module
Description:	
Address:	0
Catalog:	1747-SDN/C

Device Identity [Primary]

Vendor:	Rockwell Automation/Allen-Bradley [0001]
Type:	1747-SDN Scanner Module [0019]
Device:	Communications Adapter [0012]
Revision:	8.5

Module Configuration

Insterscan Delay	Poll Ratio	Expected Packet Rate	Transmit Retries
10 msec	2	75 msec	1

Scanlist Summary

Node	Active	Key	Input Size	Input Mapped	Output Size	Output Mapped
00, 'Slave Mode'	No	No	0	No	0	No
03, Ultra 100 2.0kW	Yes	Yes	8	Yes	8	Yes

Input Memory

Discrete

Memory Offset	Bit Length	Node	Message Type
I:1.1.0	64	03, Ultra 100 2.0kW	Polled

M File

Nothing Mapped

Output Memory

Discrete

Memory Offset	Bit Length	Node	Message Type
O:1.1.0	64	03, Ultra 100 2.0kW	Polled

M File

Nothing Mapped

Address 03, Ultra 100 2.0kW

Name:	Ultra 100 2.0kW
Description:	
Address:	3
Catalog:	1398-DDM-019-DN

Device Identity [Primary]

Vendor:	Rockwell Automation/Allen-Bradley [0001]
Type:	Ultra 100 2.0kW [0008]
Device:	Rockwell Automation miscellaneous [0115]
Revision:	2.1

Device Identity [1]

Vendor:	Rockwell Automation/Allen-Bradley [0001]
Type:	Unknown Device Code 1 [0001]
Device:	Not a purchasable subassembly [0105]
Revision:	1.39

Device Identity [2]

Vendor:	Rockwell Automation/Allen-Bradley [0001]
Type:	Unknown Device Code 1 [0001]
Device:	Not a purchasable subassembly [0105]
Revision:	1.0

Device Identity [3]

Vendor:	Rockwell Automation/Allen-Bradley [0001]
Type:	Unknown Device Code 1 [0001]
Device:	Not a purchasable subassembly [0105]
Revision:	1.1

Device Identity [4]

Vendor:	Rockwell Automation/Allen-Bradley [0001]
Type:	Unknown Device Code 1 [0001]
Device:	Not a purchasable subassembly [0105]
Revision:	2.1

Parameters

ID	Name	Value
1	DN-SW Node Addr	3
2	DN-SW Baud Rate	125kbps

3	DN-NV Node Addr	63
4	DN-NV Baud Rate	125kbps
5	Chg of State Msk	11111111 11111111 11110011 11111111
6	DNet I/O Status	00000010 00011000 10000001 00001111
7	Drive Main Ver	1.39
8	Drive Boot Ver	1.00
9	Product Type	9
10	Powerup Status	0
11	Motor ID	82
12	Pos Loop P_Gain	4.00
13	Pos Loop I_Gain	0.00
14	Pos Loop D_Gain	0.00
15	Pos Loop FF_Gain	100
16	Pos Loop I_Zone	1000 Cnts
17	Pos Window Size	20 Cnts
18	Pos Window Time	5 mS
19	Pos Error Limit	100 Cnts
20	Pos Error Time	100 mS
21	Master Rot Dir	Reverse
22	Slew Rate	2000
23	Slew Enable	Disable
24	Gear Ratio Cmd	No Action
25	Buf Gr Ratio-Mtr	4427 Cnts
26	Buf GrRatio-Mstr	1000 Cnts
27	Active Gear-Mtr	4427 Cnts
28	Active Gear-Mstr	1000 Cnts
29	Vel Loop P_Gain	469
30	Vel Loop I_Gain	156
31	Reserved	0
32	Zero Vel Window	3.00 RPM
33	Velocity Window	10.00 RPM
34	Vel Overspd Lim	5000.00 RPM
35	At Speed Value	2000.00 RPM
36	Reserved	0
37	Vel Error Limit	1000.00 RPM
38	Vel Error Time	4096 mS
39	Low Pass Bndwdth	10 Hz
40	LowPass Filter	Disable
41	Positive I Limit	15.000 Amps
42	Negative I Limit	15.000 Amps
43	Fault Current	5.898 Amps
44	Dynamic PWM Freq	Enable
45	Encoder Lines	2000
46	Max Motor Speed	5500.00 RPM
47	Motor Cont Curr	5.203 Amps
48	Motor Peak Curr	15.000 Amps
49	Torque Const Kt	0.3401 Nm/A
50	Rotor Inertia Jm	1.469
51	Back EMF Cnst Ke	41.00
52	Winding Res	2.699 Ohms
53	Winding Ind	8.602 mH
54	Thermostat	Present
55	Commutation Type	Hall / Hall
56	Thermal Protect	Enable
57	Thermal Constant	1170 Secs

58	Pole Count	4 Poles
59	Hall Offset	0 Degs
60	Index Offset	0 Degs
61	Motor Forwrd Dir	Clockwise
62	Dig Input 1 Cnfg	X0000000 00000100 00000000 00000000
63	Dig Input 2 Cnfg	X0000000 00000000 00000000 00000000
64	Dig Input 3 Cnfg	X0000000 00000000 00000000 00000000
65	Reserved	0
66	Flt Reset Config	X1000000 00000000
67	Dig Outpt 1 Cnfg	XXXXXX00 00000000 00000000 00000000
68	Dig Outpt 2 Cnfg	XXXXXX00 00000000 00000000 00000000
69	Reserved	0
70	Reserved	0
71	Brake On Delay	0 mS
72	Brake Off Delay	0 mS
73	Limit Anlg Accel	Disable
74	Anlg Accel Limit	2000 RPMS
75	Anlg Decel Limit	2000 RPMS
76	Pos CMD In Offst	0 mV
77	Pos CMD In Scale	1000 Ct/V
78	Vel CMD In Offst	0 mV
79	Vel CMD In Scale	27.27 %
80	MaxVel CMD Scale	1100 RM/V
81	Tor CMD In Offst	0 mV
82	Tor CMD In Scale	30.03 %
83	MaxTrq CMD Scale	5.996 A/V
84	Analog Out1 Cnfg	Motor Velocity
85	Anlg Out1 Offset	0 mV
86	Anlg Out1 Scale	1638
87	Reserved	0
88	Reserved	0
89	Reserved	0
90	Analog Out Mode	Normal
91	Anlg Out1 Ovride	0 mV
92	Reserved	0
93	Limit Preset Acc	Enable
94	Preset Acc Limit	35 RPMS
95	Preset Dec Limit	500 RPMS
96	Vel Preset 0	350.00 RPM
97	Vel Preset 1	50.00 RPM
98	Vel Preset 2	0.00 RPM
99	Vel Preset 3	0.00 RPM
100	Vel Preset 4	0.00 RPM
101	Vel Preset 5	0.00 RPM
102	Vel Preset 6	0.00 RPM
103	Vel Preset 7	0.00 RPM
104	Torque Preset 0	0.000 Amps
105	Torque Preset 1	0.000 Amps
106	Torque Preset 2	0.000 Amps
107	Torque Preset 3	0.000 Amps
108	Torque Preset 4	0.000 Amps
109	Torque Preset 5	0.000 Amps
110	Torque Preset 6	0.000 Amps
111	Torque Preset 7	0.000 Amps
112	Command Source	Master Encoder

113	Drive Mode	Velocity
114	Override Cmd Src	Presets
115	Overide Drv Mode	Velocity
116	Enc Outpt Config	Divide by 1
117	Change Direction	Normal
118	Tuning/Oper Mode	Normal
119	Tuning Status	XXXXXXXX X0000000
120	Autotune Max Cur	4.164 Amps
121	Autotune Max Dis	16000 Cnts
122	MTune Pos Period	10000 mS
123	ManTune Pos Step	20000 Cnts
124	MTune Vel Period	800 mS
125	ManTune Vel Step	1000.00 RPM
126	Tuning Direction	Bi-directional
127	Drive Status	00000000 00011000 10000001 00001111
128	Fault Status	00000000 00000000 00000000 00000000
129	Output Status	10000001 00001111 00000000 00000001
130	Dig Input States	XXXXXXXX XXX00000
131	Dig Outpt States	XXXXXXXX XXXX0001
132	Analog CMD Input	-3 mV
133	+ILimit Inpt Val	14.984 Amps
134	-ILimit Inpt Val	14.984 Amps
135	Analog Output 1	-20 mV
136	Reserved	0
137	Motor Position	0 Cnts
138	Master Position	0 Cnts
139	Position Command	0 Cnts
140	Position Error	0 Cnts
141	Peak +Pos Error	0 Cnts
142	Peak -Pos Error	0 Cnts
143	Velocity Command	0.00 RPM
144	Motor Velocity	0.00 RPM
145	Velocity Error	0.00 RPM
146	Current Command	0.000 Amps
147	Average Current	0.000 Amps
148	Pos Peak Current	0.000 Amps
149	Neg Peak Current	0.000 Amps
150	DC Bus Voltage	332 Vlts
151	Field Current	0.016 Amps
152	Torque Current	0.000 Amps
153	R-Phase Current	0.000 Amps
154	T-Phase Current	-0.008 Amps
155	Field Voltage	0.000 Vlts
156	Torque Voltage	0.000 Vlts
157	Motor Therm Filt	0.00 %
158	Reserved	0
159	Fault History 1	IPM Thermal Prot
160	Fault History 2	IPM Thermal Prot
161	Fault History 3	Motor Encodr Err
162	Fault History 4	Bus Undervoltage
163	Fault History 5	No Fault
164	Fault History 6	No Fault
165	Fault History 7	No Fault
166	Fault History 8	No Fault
167	Fault History 9	No Fault

168	Fault History 10	No Fault
169	Host Contrl Mode	Enable
170	Host Setpnt Ctrl	Disable
171	Reserved	0
172	Host Vel Setpnt	0.00 RPM
173	Host Torq Setpnt	0.000 Amps
174	Host Acc Setpnt	2000 RPMS
175	Reset Personalty	No Action
176	Reset Drive	No Action
177	Reset Faults	No Action
178	Reset I Peaks	No Action
179	DNet I/O Format	Type 4
180	Idle Flt Action	Hold Last
181	Comm Flt Action	Hold Last
182	Fault Cfg Logic	00000000 00000000
183	Logic Cmd Mask	11000000 00000100
184	I/O Logic Cmd	00000000 00000000
185	Enable Behavior	Hardware OR DNet