DeviceNet Baseline & Test Report

Tested By:		Company
Phone		e-mail
Measurement Date	Measurement Time	Network Identification
Network Location (Company name & Address)		

Network Characteristics

☐ Single Master # ___ ☐ Multi Master # ___, ___, ___, ___, ___ ☐ Single power supply ☐ Multiple power supplies (No. ___)

☐ 125 Kbaud ☐ 250 Kbaud ☐ 500 Kbaud ☐ Network uses flat media

Node List (According to network administrator, or "Network Who" scan)

☐ 0	☐ 1	☐ 2	☐ 3	☐ 4	☐ 5	☐ 6	☐ 7	☐ 8	☐ 9	☐ 10	☐ 11	☐ 12	☐ 13	☐ 14	☐ 15
☐ 16	☐ 17	☐ 18	☐ 19	☐ 20	☐ 21	☐ 22	☐ 23	☐ 24	☐ 25	☐ 26	☐ 27	☐ 28	☐ 29	☐ 30	☐ 31
☐ 32	☐ 33	☐ 34	☐ 35	☐ 36	☐ 37	☐ 38	☐ 39	☐ 40	☐ 41	☐ 42	☐ 43	☐ 44	☐ 45	☐ 46	☐ 47
☐ 48	☐ 49	☐ 50	☐ 51	☐ 52	☐ 53	☐ 54	☐ 55	☐ 56	☐ 57	☐ 58	☐ 59	☐ 60	☐ 61	☐ 62	☐ 63

Basic Observations & Symptoms

Reported Symptoms

☐ No problems reported ☐ Intermittent problems (___ min, ___ hrs, ___ days) ☐ Constant problems

☐ All nodes affected ☐ Some nodes affected (___, ___, ___, ___, ___, ___, ___, ___, ___, ___, ___, ___, ___, ___, ___, ___, ___, ___)

Node Network Status LEDs (LED indications refer to Network Status or Combined Module/Network Status LEDs)

☐ All nodes active (green) ☐ Some nodes active (green) ☐ Some nodes inactive (blink green)

☐ Some nodes faulted (red) ☐ All nodes occasionally inactive (green / blink green) ☐ Some nodes occasionally inactive (green / blink green)

☐ All nodes with no power (LED off) ☐ Some nodes with no power (LED off)

NetAlert PowerMonitor Tees

✍ Located Near Power Supply

☐ No problems (solid green) ☐ Power fail (flickering green) ☐ High voltage (flickering red) ☐ Low Voltage (flickering blue)

☐ AC (flickering yellow) ☐ Surge (red flash every 3 sec.) ☐ Brownout (blue flash every 3 sec.) ☐ Glitch (yellow flash every 3 sec.)

✍ Located at End of Network (in proximity to node # ___)

☐ No problems (solid green) ☐ Power fail (flickering green) ☐ High voltage (flickering red) ☐ Low Voltage (flickering blue)

☐ AC (flickering yellow) ☐ Surge (red flash every 3 sec.) ☐ Brownout (blue flash every 3 sec.) ☐ Glitch (yellow flash every 3 sec.)

✍ Located at End of Network (in proximity to node # ___)

☐ No problems (solid green) ☐ Power fail (flickering green) ☐ High voltage (flickering red) ☐ Low Voltage (flickering blue)

☐ AC (flickering yellow) ☐ Surge (red flash every 3 sec.) ☐ Brownout (blue flash every 3 sec.) ☐ Glitch (yellow flash every 3 sec.)

Physical Layer Measurements (✍ NetMater ✍ DeviceNet Detective ✍ Multimeter ✍ Oscilloscope Connected to network in proximity to node # ___)

Use your NetMeter to take all of the following measurements (NetMeter switch positions are shown beside each measurement). You can collect a limited number of measurements using other tools such as the DeviceNet Detective, multimeter and/or oscilloscope (indicated by icons in the table).

Autosearch Results (record measurements as indicated by NetMeter Autosearch function and check for ✍ and/or ✍ with each reported problem)

✍ No faults found ✍

NetMeter gathered data for (H:M:S) ___:___:___ before measurements were recorded

Measurement	Min	Max
[2] Bus error rate (/S)		✍✍ ✍✍
[4] Bus power, DC (V)	✍✍ ✍✍	✍✍ ✍✍
[5] Shield Voltage (V)	✍✍ ✍✍	✍✍ ✍✍
[7] CANH/L Recessive Diff. (V)	✍✍ ✍✍	✍✍ ✍✍
[9] CANH Recessive (V)	✍✍ ✍✍	✍✍ ✍✍
[11] CANL Recessive (V)	✍✍ ✍✍	✍✍ ✍✍

Measurement	Min	Max
[3] Bus traffic, bandwidth (%)	✍✍ ✍✍	✍✍ ✍✍
[4] Bus power, P-P (V)		✍✍ ✍✍
[6] Common Mode Voltage		✍✍ ✍✍
[8] CANH/L Dominant Diff. (V)	✍✍ ✍✍	✍✍ ✍✍
[10] CANH Dominant (V)	✍✍ ✍✍	✍✍ ✍✍
[12] CANL Dominant (V)	✍✍ ✍✍	✍✍ ✍✍

Overall Subnet Measurements (only important for **baseline** performance, or for more detail if NetMeter Autosearch indicates problems)

Measurement	"Live"	Min	Max
[2] Bus error rate (/S)			
[3] Bus traffic, bandwidth (%)			
[4] Bus power, DC (V)			
[5] Shield Voltage (V)			
[7] CANH/L Recessive Diff. (V)			
[9] CANH Recessive (V)			
[11] CANL Recessive (V)			

Measurement	"Live"	Min	Max
[2] Bus error count			
[3] Bus traffic, message rate (/S)			
[4] Bus power, P-P (V)			
[6] Total Common Mode Voltage			
[8] CANH/L Dominant Diff. (V)			
[10] CANH Dominant (V)			
[12] CANL Dominant (V)			

Per-node Measurements (only important for **baseline** performance or for more detail subnet measurements indicate problems).

Node Number	[2] Bus error rate (/S)			[2] Bus error count	[3] Bus traffic, bandwidth utilization (%)			[3] Bus traffic, message rate (/S)		
	"Live"	Min	Max		"Live"	Min	Max	"Live"	Min	Max

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