

**MOOS Power System
Data Acquisition System
Channel List
for MOOS Test Mooring #2, March 2004**

18-Dec-03

ecm

18-Dec-03 Initial Release

Very Preliminary

15-Jan-04 Mod P2Board channels

Mod Conv/GF Board channels

22-Jan-04 Final Conv/GF channels

Add "Initialize To" column

13-Feb-04 Update Wind/Load channels

Update Solar/Batt channels

scale factors not final

scale factors not final

Board Number (CS)	Board Function	Channel Number	Channel Function	Data Format	Initialize To	Nom Conversion Gain	Nom Conversion Offset	Typ Sample Interval	Pre-Sample Event Time	Post-Sample Event Time	Pre/Post Event	Comment
Backplane CS 0	Solar/Battery Interface 0	0	EEPROM	Atmel AT25040								
		1	North Solar Current	19 bit		305.2 uA/count		0.1 sec	no	no		
		2	East Solar Current	19 bit		305.2 uA/count		0.1 sec	no	no		
		3	North Solar Voltage	19 bit		3.853 mV/count		0.1 sec	no	no		
		4	East Solar Voltage	19 bit		3.853 mV/count		0.1 sec	no	no		
		5	North Batt Current	19 bit		305.2 uA/count		0.1 sec	no	no		
		6	East Batt Current	19 bit		305.2 uA/count		0.1 sec	no	no		
		7	Batt Water N&E	Bit 0: Box N0				1 min	no	no		Input Register
				Bit 1: Box N1								
				Bit 2: Box E0								
				Bit 3: Box E1								
Backplane CS 1	Solar/Battery Interface 1	0	EEPROM	Atmel AT25040								
		1	South Solar Current	19 bit		305.2 uA/count		0.1 sec	no	no		
		2	West Solar Current	19 bit		305.2 uA/count		0.1 sec	no	no		
		3	South Solar Voltage	19 bit		3.853 mV/count		0.1 sec	no	no		
		4	West Solar Voltage	19 bit		3.853 mV/count		0.1 sec	no	no		
		5	South Batt Current	19 bit		305.2 uA/count		0.1 sec	no	no		
		6	West Batt Current	19 bit		305.2 uA/count		0.1 sec	no	no		
		7	Batt Water W&S	Bit 0: Box S0				1 min	no	no		Input Register
				Bit 1: Box S1								
				Bit 2: Box W0								
				Bit 3: Box W1								
Backplane CS 2	Wind/Load Interface 0	0	EEPROM	tbd								
		1	Wind #0 Current	19 bit		610.4 uA/count		0.1 sec	no	no		
		2	Load Sink 0 Current	19 bit		610.4 uA/count		0.1 sec	no	no		
		3	Batt Bus Voltage	19 bit		3.853 mV/count		0.1 sec	no	no		
		4	Load Sink 0 Temp	19 bit		tbd	tbd	10 sec	no	no		
		5	Charge Reg 0 Temp	19 bit		tbd	tbd	10 sec	no	no		
Backplane CS 3	Wind/Load Interface 1	0	EEPROM	tbd								
		1	not used on MTM2	19 bit		610.4 uA/count		0.1 sec	no	no		
		2	Load Sink 1 Current	19 bit		610.4 uA/count		0.1 sec	no	no		
		3	Batt Bus Voltage	19 bit		3.853 mV/count		0.1 sec	no	no		
		4	Load Sink 1 Temp	19 bit		tbd	tbd	10 sec	no	no		
		5	Charge Reg 1 Temp	19 bit		tbd	tbd	10 sec	no	no		

[illegible]