CONTROLLER 2
RIO-47102
MUILTISTACK MONITOR

	BIT	FUNC.
ANALOG INPUTS	AI0	– CHILLER PROCESS INLET FLOW, SPECTROGRAPH
	AI1	– CHILLER PROCESS OUTLET FLOW, SPECTROGRAPH
	AI2	–
	AI3	–
	AI4	–
	AI5	–
	AI6	–
	AI7	–
ANALOG OUTPUTS	AO0	–
	AO1	–
	AO2	–
	AO3	–
	AO4	–
	AO5	–
	AO6	–
	AO7	–

CONTROLLER 3
RIO-47122
SPECT. INTERNAL

BIT	FUNC.	
AI0	RTD0 – DEWAR MOTION STAGE	
AI1	RTD1 – CAL LAMP LOOP OUT	
AI2	RTD2 – UCAM LOOP OUT	
AI3	RTD3 – GUIDE CAMERA LOOP IN	
AI4	RTD4 – GUIDE CAMERA LOOP OUT	
AI5	RTD5	
AI6	–	
AI7	INTERNAL R/H SENSOR	0–1V
AO0	–	
AO1	–	
AO2	–	
AO3	–	
AO4	–	
AO5	–	
AO6	–	
AO7	–	

CONTROLLER 4
RIO-47122
SPECT. EXTERNAL

BIT	FUNC.	
AI0	RTD0 – MANIFOLD (IN)	
AI1	RTD1 – EXT. FREE AIR AT SPECT. TOP	
AI2	RTD2 – EXT. FREE AIR AT SPECT. BOTTOM	
AI3	RTD3	
AI4	RTD4	
AI5	RTD5	
AI6	–	
AI7	EXTERNAL R/H SENSOR	0–1V
AO0	MANIFOLD BYPASS VALVE	0–10V
AO1	UCAM COOLING LOOP VALVE	0–10V
AO2	HEAT EXCH. COOLING LOOP VALVE	0–10V
AO3	CAL LAMP LOOP VALVE	0–10V
AO4	–	
AO5	–	
AO6	–	
AO7	–	

IMPORTANT: The proportional valves MUST be open upon power up or RESET.

CTRL 2

IA	?
IQ	?
KD	N/A
KI	N/A
KP	N/A
MA	N/A
MD	N/A
ME	0
MS	N/A
OP	0,0
PW	N/A
SM	?
VF	?

CTRL 3

IA	192,168,8,23
IQ	?
KD	N/A
KI	N/A
KP	N/A
MA	N/A
MD	N/A
ME	0
MS	N/A
OP	0,0
PW	N/A
SM	?
VF	?

CTRL 4

IA	192,168,8,22	DQ	0,2
IQ	?	DQ	1,2
KD	N/A	DQ	2,2
KI	N/A	DQ	3,2
KP	N/A	AQ	?
MA	N/A	AQ	?
MD	N/A	AQ	?
ME	0	AQ	?
MS	N/A	AO	0,5.0
OP	0,0	AO	1,5.0
PW	N/A	AO	2,5.0
SM	?	AO	3,5.0
VF	?		

REVISIONS

http://loel.ucolick.org/manual/APF/schematics/APF_Programming_Notes_sh_3.pdf

03-2-12 ADDED CHILLER PROCESS INLET & OUTLET FLOW TO SPECTROGRAPH ON AO0 & A01 CONTOLLER 2

UNIVERSITY OF CALIFORNIA
LICK OBSERVATORY

PROGRAMMING NOTES
APF SPECTROGRAPH

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PROGRAMMING NOTES APF SPECTROGRAPH

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