

ANALOG INPUT ASSIGNMENTS

Automatic Planet Finder Spectrograph Analog Inputs				
CH	SIGNAL	FUNCTION	FROM:	TO:
1	ADC_MOT_TEMP	ADC STAGE MOTOR TEMPERATURE	J2-17	JT1-2
2	CAM_MOT_TEMP	GUIDE CAMERA FOCUS STAGE MOTOR TEMPERATURE	J2-14	JT2-2
3	CMR_MOT_TEMP	CALIBRATION MIRROR STAGE MOTOR TEMPERATURE	J2-3	JT3-2
4	CAL_MOT_TEMP	CALIBRATION SOURCE STAGE MOTOR TEMPERATURE	J2-6	JT4-2
5	IOD_MOT_TEMP	IODINE CELL STAGE MOTOR TEMPERATURE	J2-12	JT5-2
6	SLT_MOT_TEMP	SLIT DECKER STAGE MOTOR TEMPERATURE	J2-23	JT6-2
7	DEW_MOT_TEMP	DEWAR FOCUS STAGE MOTOR TEMPERATURE	J2-20	JT7-2
8	(RESERVED)	(UNASSIGNED STAGE MOTOR TEMPERATURE)	(J2-9)	(JT8-2)
X				
1	-	-	J3-3	JT9-2
2	BB_TOP_SURFACE	BREADBOARD TEMPERATURE	J3-14	JT10-2
3	BB_BOT_AIR	BREADBOARD TEMPERATURE	J3-17	JT11-2
4	BB_BOT_SURFACE	BREADBOARD TEMPERATURE	J3-6	JT12-2
5	(UNASSIGNED)	-	J3-12	JT13-2
6	ENC_BOT_FREE_AIR	ENCLOSURE BOTTOM FREE AIR	J3-23	JT14-2
7	INT_SPHERE	INTEGRATING SPHERE SURFACE TEMPERATURE	J3-9	JT15-2
8	(UNASSIGNED)	-	J3-20	JT16-2
X				
1	GALIL +5 V MONITOR	GALIL INTERNAL POWER SUPPLY +5 V	(ONBOARD)	-
2	GALIL +/-12 V MONITOR	GALIL INTERNAL POWER SUPPLY +/-12 V	(ONBOARD)	-
3	SERVO SUPPLY MONITOR	KEPCO 48 V POWER SUPPLY	J5-2	-
4	(UNUSED)	-	J6-2	-
5	RACK_BOTTOM	ELECTRONICS RACK BOTTOM SENSOR	J4-9	JT21-2
6	RACK_TOP	ELECTRONICS RACK TOP SENSOR	J4-3	JT22-2
7	BOARD TEMP 1	AMBIENT TEMPERATURE AT BOARD 1	(ONBOARD)	-
8	RACK_MIDDLE	ELECTRONICS RACK MIDDLE SENSOR	J4-6	JT24-2

GALIL ANALOG INPUT #

CAUTION: NOTE CHANNEL PIN NUMBERS CAREFULLY - SOME CHANNELS ARE SWAPPED

Automatic Planet Finder Spectrograph Analog Inputs				
CH	SIGNAL	FUNCTION	FROM:	TO:
1	(UNASSIGNED)	(TEMPORARY CONNECTED SENSOR AT CABLE PANEL)	J2-17	JT25-2
2	(UNASSIGNED)	(TEMPORARY CONNECTED SENSOR AT CABLE PANEL)	J2-14	JT26-2
3	(UNASSIGNED)	(TEMPORARY CONNECTED SENSOR AT CABLE PANEL)	J2-3	JT27-2
4	(UNASSIGNED)	(TEMPORARY CONNECTED SENSOR AT CABLE PANEL)	J2-6	JT28-2
5	(UNASSIGNED)	(TEMPORARY CONNECTED SENSOR AT CABLE PANEL)	J2-12	JT29-2
6	(UNASSIGNED)	(TEMPORARY CONNECTED SENSOR AT CABLE PANEL)	J2-23	JT30-2
7	(UNASSIGNED)	(TEMPORARY CONNECTED SENSOR AT CABLE PANEL)	J2-20	JT31-2
8	(UNASSIGNED)	(TEMPORARY CONNECTED SENSOR AT CABLE PANEL)	J2-9	JT32-2
X				
1	BB_TOP_AIR	FREE AIR AT TOP OF SPECTROGRAPH	J3-3	JT33-2
2	LAMP_TEMP_OUT	CAL LAMP COOLING LOOP TEMP. OUT	J3-14	JT34-2
3	UCAM_TEMP_OUT_CL	UCAM COOLING LOOP TEMP. OUT	J3-17	JT35-2
4	HEAT_EXG_COOLANT	HEAT EXCHANGER COOLANT BOTTOM SPECTROGRAPH	J3-6	JT36-2
5	GUIDE_TEMP_IN	GUIDE CAMERA COOLING PORT#1	J3-12	JT37-2
6	GUIDE_TEMP_OUT	GUIDE CAMERA COOLING PORT#2	J3-23	JT38-2
7	UCAM_TEMP_OUT_H	UCAM CONTROLLER EXT. HOUSING TEMP	J3-9	JT39-2
8	(UNASSIGNED)	(UNASSIGNED TEMPERATURE)	J3-20	JT40-2
X				
1	LOGIC +5 V MONITOR	GALIL INTERNAL POWER SUPPLY +5 V	(ONBOARD)	-
2	GALIL +/-12 V MONITOR	GALIL INTERNAL POWER SUPPLY +/-12 V	(ONBOARD)	-
3	(UNASSIGNED)	-	J5-2	-
4	(UNASSIGNED)	-	J6-2	-
5	IP CURRENT	ION PUMP CONTROLLER CURRENT	J4-9	J001-2
6	IP VOLTAGE	ION PUMP CONTROLLER VOLTAGE	J4-3	J001-4
7	LOCAL TEMP 2	AMBIENT TEMPERATURE AT BOARD 2	(ONBOARD)	-
8	(UNASSIGNED)	-	J4-6	JT48-2

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***Also update web: APF/electronics/EL3510.html

REVISIONS http://loel.ucolick.org/manual/Apf/schematics/APF_in_out_sh_4.pdf

- 04-05-10 REMOVED COOLANT IN AND OUT TEMPERATURE INPUTS: CHANNELS 9, 10, 11 AND 12 (MOVED TO RIO RTD INPUTS)
- 05-13-10 ADDED JT DESIGNATIONS TO TEMPERATURE SENSOR OUTPUTS
- 05-27-11 REALLOCATED ANALOG2, CHANNEL7 TO INTEGRATING SPHERE AND CHANGED 'FUNCTION' OF BB_TEMP_TOP_AIR TO SNORKEL TEMPERATURE
- 08-08-11 CORRECTED TOP AIR AND TOP SURFACE LABELS
- 08-16-11 MOVED SPECT. TOP FREE AIR CONNECTION TO ANALOG INPUT 5, SELECT CODE 000 AND ADDED *ANALOG INPUT 4 TEMPORARY* LABELS
- 10-13-11 ADDED TEMP SENSORS TO SPECTROGRAPH HEAT EXCHANGER & 6 STRUTS
- 09-11-12 MOVED S.S. TEMP SENSORS FROM STRUTS TO UCAM & GUIDE CAM.
- 09-11-12 SWAPPED S.S. TEMP SENSOR LABELS FOR BB_BOT_SURFACE AND BB_BOT_AIR PER WILL

UNIVERSITY OF CALIFORNIA LICK OBSERVATORY		ANALOG INPUTS SIGNAL ASSIGNMENTS APF SPECTROMETER	
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INPUT/OUTPUT ASSIGNMENTS APF SPECTROMETER