

RIO-47122, COOLING SYSTEM APF SPECTROMETER (SEE EL-3505) AND APF ENTRANCE HATCH (EL-3524)

INTERNAL RIO

Automatic Planet Finder Spectrograph Internal RIO-47122 Digital Inputs				
BIT	LABEL	SIGNAL	FUNCTION	D-SUB
0	DI0	HATCH_IS_OPEN	APF ENTRANCE HATCH OPEN LIMIT	7
1	DI1	HATCH_IS_CLOSED	APF ENTRANCE HATCH CLOSED LIMIT	22
2	DI2	INT_DEW_DETECT	RESERVED FOR DEWAR COOLING LINES DEW SENSOR	36
3	DI3	-	-	6
4	DI4	-	-	21
5	DI5	-	-	35
6	DI6	-	-	5
7	DI7	-	-	20
8	DI8	-	-	33
9	DI9	-	-	3
10	DI10	-	-	18
11	DI11	-	-	32
12	DI12	-	-	2
13	DI13	-	-	17
14	DI14	-	-	31
15	DI15	-	-	1

Automatic Planet Finder Spectrograph Internal RIO-47122 Digital Outputs				
BIT	LABEL	SIGNAL	FUNCTION	D-SUB
0	DO0	LED-1	RESERVED, LED LIGHT SOURCE, GUIDE CAMERA	44
1	DO1	EXCH_FAN_ON	COOLING FAN 1, LOCATED ON HEAT EXCHANGER	14
2	DO2	LED-2	RESERVED, LED LIGHT SOURCE, GUIDE CAMERA	29
3	DO3	LED-3	RESERVED, LED LIGHT SOURCE, GUIDE CAMERA	43
4	DO4	FAN, LOW BANK	CIRCULATION FAN, HEATER, LOW BANK	13
5	DO5	-	-	28
6	DO6	-	-	42
7	DO7	FAN, HIGH BANK	CIRCULATION FAN, HEATER, HIGH BANK	12
8	DO8	OPEN_HATCH	APF ADC ENTRANCE HATCH CONTROL BIT	26
9	DO9	-	-	40
10	DO10	-	-	10
11	DO11	-	-	25
12	DO12	-	-	39
13	DO13	-	-	9
14	DO14	-	-	14
15	DO15	-	-	38

Automatic Planet Finder Spectrograph RIO-47122 ANALOG INPUTS				
INPUT LABEL	SIGNAL	FUNCTION	D-SUB	
0	AI0	DEWAR_STAGE	RTD0 DEWAR MOTION STAGE	23
1	AI1	STRUT_2_FRAME	STRUT # 2 TEMP ON SPECTROGRAPH (RTD#2)	5
2	AI2	STRUT_4_FRAME	STRUT #4 TEMP ON SPECTROGRAPH (RTD#4)	14
3	AI3	STRUT_3_FRAME	STRUT #3 TEMP ON SPECTROGRAPH (RTD#3)	22
4	AI4	STRUT_6_FRAME	STRUT #6 TEMP ON SPECTROGRAPH (RTD#6)	4
5	AI5	STRUT_1_FRAME	STRUT #1 TEMP ON SPECTROGRAPH (RTD#1)	13
6	AI6	-	-	21
7	AI7	INT_R/H	INTERNAL R/H SENSOR OMEGA HX302V	3

Automatic Planet Finder Spectrograph RIO-47122 ANALOG INPUTS				
OUTPUT LABEL	SIGNAL	FUNCTION	D-SUB	
0	A00	-	(UNASSIGNED)	18
1	A01	-	(UNASSIGNED)	26
2	A02	-	(UNASSIGNED)	8
3	A03	-	(UNASSIGNED)	17
4	A04	-	(UNASSIGNED)	25
5	A05	-	(UNASSIGNED)	7
6	A06	-	(UNASSIGNED)	16
7	A07	-	(UNASSIGNED)	24

***Also update web: [APF/electronics/EL3510.html](http://loel.ucoick.org/manual/Apf/schematics/APF_in_out_sh_6.pdf)
 ***Also update EL-3523 and web EL3523

http://loel.ucoick.org/manual/Apf/schematics/APF_in_out_sh_6.pdf

REVISIONS	
05-01-07	ADDED SECOND SERVO SUPPLY DISABLE BIT 14
05-02-07	CORRECTED SHUTTER SIGNAL ASSIGNMENTS
04-23-08	RENAMED SHUTTER 1 SCIENCE SHUTTER, SHUTTER 2 CUBE SHUTTER AND SHUTTER 3 SCIENCE SENSOR
12-18-09	CORRECTED SIGNAL ASSIGNMENTS FOR ANALOG INS AND OUTS
04-06-10	CHANGED RIO TO 47122. UPDATED ALL COOLING RELATED SIGNALS
04-14-10	ADDED RELATED SIGNALS WITH NEW RTD INPUTS AND UPDATED SIGNAL ASSIGNMENTS
09-30-10	ADDED RTD5 UCAM EXT HOUSING TEMP.
08-16-11	DISCONNECTED HEAT EXCHANGER RTD AND WIRED IN RTD ATTACHED TO DEWAR STAGE
09-11-12	ADDED RTD FROM STRUTS 1-4 & 6
02-24-14	ADDED CIRCULATION FANS TO DO4 & DO7

UNIVERSITY OF CALIFORNIA LICK OBSERVATORY		INTERNAL RIO I/O SIGNAL ASSIGNMENTS APF SPECTROMETER	
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