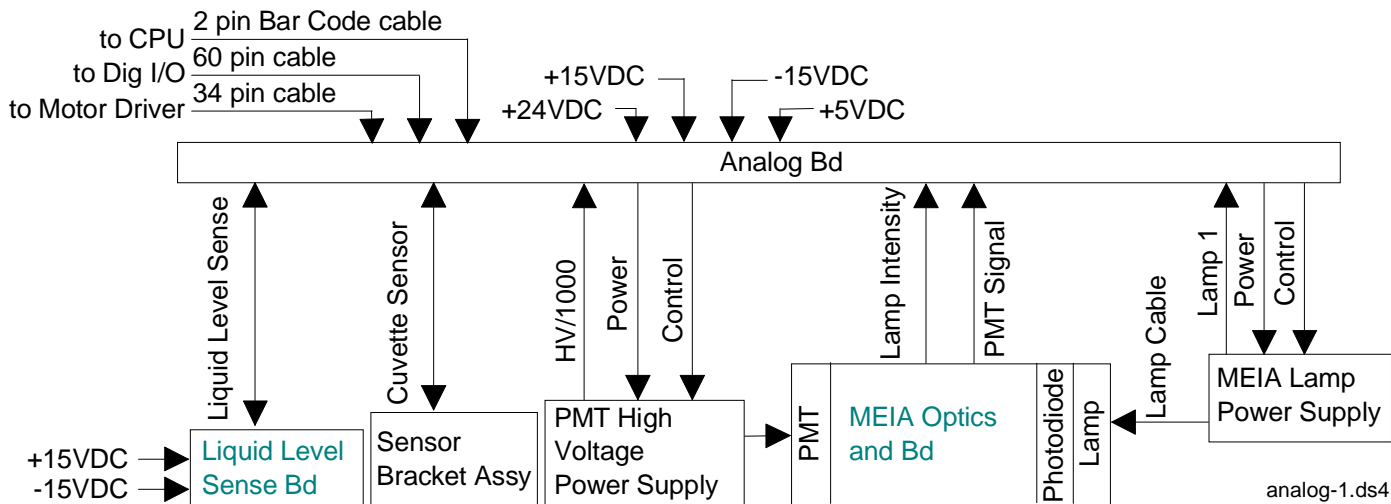


## Analog Board (pg 1 of 10)

### Signal Pathway

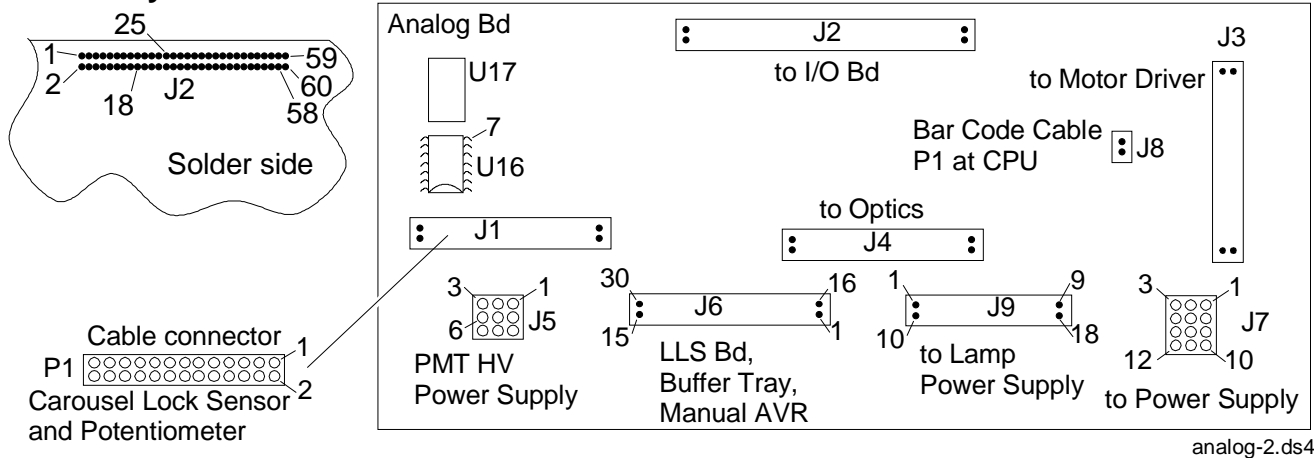


PL-8	Board Layout	Pinouts
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## Analog Board (pg 2 of 10)

### Board Layout



Signal Pathway	Pinouts
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## Analog Board (pg 3 of 10)

### Connector Pin Callouts

#### Analog Bd to CPU Board

From Analog Bd	To CPU Bd	Remarks
P8 - 1	J5- 1	WAND
	J5- 2	NC
P8 - 2	J5- 3	DGND
	J5- 4	NC
	J5- 5	NC

#### Analog to Sensors

From Analog Bd	To Sensors	Remarks
P6 - 18	PA	Buffer Tray Assy
P6 - 19	PA	Buffer Tray Assy
P6 - 10	PA	Buffer Tray Assy
P6 - 9	PA	Buffer Tray Assy
P6 - 20	PA	Buffer Tray Assy
P6 - 12	PA	Buffer Tray Assy
P6 - 13	PA	Buffer Tray Assy
P6 - 8	PA	Buffer Tray Assy
P6 - 16, P6 - 14	PC	Manual AVR
P6 - 4, P6 - 7	PC	Manual AVR
P6 - 5, P6 -15	P2	ADC LLS Board
P6 -25, P6 -27	P6	

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## Analog Board (pg 4 of 10)

### Connector Pin Callouts (cont)

#### Analog to Digital I/O Board

From Analog Bd	To Dig I/O Bd	Remarks
P2 - 1	P4 - 1	DGND
P2 - 2	P4 - 2	LOOP TO 58
P2 - 3	P4 - 3	FREQ1
P2 - 4	P4 - 4	DGND
P2 - 5	NC	NC
P2 - 6	P4 - 6	DGND
P2 - 7	P4 - 7	FREQ3 (MEIA PMT)
P2 - 8	P4 - 8	DGND
P2 - 9	P4 - 9	FREQ4 (MEIA LAMP Z)
P2 - 10	P4 - 10	DGND

#### Analog to Digital I/O Board (cont)

From Analog Bd	To Dig I/O Bd	Remarks
P2 - 11	P4 - 11	DGND
P2 - 12	P4 - 12	DGND
P2 - 13	P4 - 13	not used
P2 - 14	P4 - 14	ADC/INT
P2 - 15	P4 - 15	LIQ SENSE
P2 - 16	P4 - 16	B LAMP SW
P2 - 17	P4 - 17	A LAMP SW
P2 - 18	NC	NC
P2 - 19	NC	NC
P2 - 20	NC	NC

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## Analog Board (pg 5 of 10) Connector Pin Callouts (cont)

### Analog to Digital I/O Board (cont)

From Analog Bd	To Dig I/O Bd	Remarks
P2 - 21	P4 - 21	NC on DIG I/O
P2 - 22	P4 - 22	DGND
P2 - 23	P4 - 23	DGND
P2 - 24	P4 - 24	AIR HT
P2 - 25	P4 - 25	LIQ HT
P2 - 26	P4 - 26	OPTIC HT
P2 - 27	P4 - 27	R PAK HT
P2 - 28	P4 - 28	SP HT
P2 - 29	NC	NC
P2 - 30	NC	NC

### Analog to Digital I/O Board (cont)

From Analog Bd	To Dig I/O Bd	Remarks
P2 - 31	P4 - 31	ANLCS
P2 - 32	P4 - 32	HI/LO LAMP
P2 - 33	P4 - 33	MUXSEL
P2 - 34	P4 - 34	CS/RD
P2 - 35	P4 - 35	BUFF A
P2 - 36	P4 - 36	BUFF B
P2 - 37	P4 - 37	DAC/WR
P2 - 38	P4 - 38	DGND
P2 - 39	P4 - 39	A0
P2 - 40	P4 - 40	DGND
P2 - 41	P4 - 41	A1

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## Analog Board (pg 6 of 10) Connector Pin Callouts (cont)

### Analog to Digital I/O Board (cont)

From Analog Bd	To Dig I/O Bd	Remarks
P2 - 42	P4 - 42	DGND
P2 - 43	P4 - 43	A0
P2 - 44	P4 - 44	DGND
P2 - 45	P4 - 45	D0
P2 - 46	P4 - 46	DGND
P2 - 47	P4 - 47	D1
P2 - 48	P4 - 48	DGND
P2 - 49	P4 - 49	D2
P2 - 50	P4 - 50	DGND
P2 - 51	P4 - 51	D3
P2 - 52	P4 - 52	DGND

### Analog to Digital I/O Board (cont)

From Analog Bd	To Dig I/O Bd	Remarks
P2 - 53	P4 - 53	D4
P2 - 54	P4 - 54	DGND
P2 - 55	P4 - 55	D5
P2 - 56	P4 - 56	DGND
P2 - 57	P4 - 57	D6
P2 - 58	P4 - 58	LOOP TO 2
P2 - 59	P4 - 59	D7
P2 - 60	P4 - 60	RST

*Note: Digital grounds (DGND) are tied together on the Analog board but are only tied to digital ground on the I/O board.*

## Analog Board (pg 7 of 10)

### Connector Pin Callouts (cont)

#### Analog to Lamp Power Supply (P/S)

From Analog Bd	To Lamp P/S	Remarks
P9 - 1	P1 - 1	+5V
P9 - 2	P1 - 2	+24V
P9 - 3	P1 - 3	+24V
P9 - 4	P1 - 4	LNCTL
P9 - 5	P1 - 5	DCON
P9 - 6	P1 - 6	AGND
P9 - 7	P1 - 7	+15V
P9 - 8	P1 - 8	LC
P9 - 9	P1 - 9	-15V

#### Analog to Lamp Power Supply (cont)

From Analog Bd	To Lamp P/S	Remarks
P9 - 10	P1 - 10	HILIM
P9 - 11	P1 - 11	DGND
P9 - 12	P1 - 12	+24V
P9 - 13	P1 - 13	PGND
P9 - 14	P1 - 14	PGND
P9 - 15	P1 - 15	AGND
P9 - 16	P1 - 16	LCC
P9 - 17	P1 - 17	+15V
P9 - 18	P1 - 18	-15V

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## Analog Board (pg 8 of 10)

### Connector Pin Callouts (cont)

#### Analog to Motor Driver

From Analog Bd	To Motor Driver	Remarks
P3A - 1	P3M - 1	NC
P3A - 2	P3M - 2	DGND
P3A - 3	P3M - 3	NC
P3A - 4	P3M - 4	AGND
P3A - 5	P3M - 5	NC
P3A - 6	P3M - 6	NC
P3A - 7	P3M - 7	NC
P3A - 8	P3M - 8	NC
P3A - 9	P3M - 9	NC
P3A - 10	P3M - 10	LIQ. LEVEL
P3A - 11	P3M - 11	NC
P3A - 12	P3M - 12	AGND

#### Analog to Motor Driver (cont)

From Analog Bd	To Motor Driver	Remarks
P3A - 13	P3M - 13	NC
P3A - 14	P3M - 14	Bar Code Analog
P3A - 15	P3M - 15	+15V
P3A - 16	P3M - 16	+5V
P3A - 17	P3M - 17	NC
P3A - 18	P3M - 18	Bar Code Digital
P3A - 19	P3M - 19	NC
P3A - 20	P3M - 20	AGND
P3A - 21	P3M - 21	-15V
P3A - 22	P3M - 22	+15V
P3A - 23	P3M - 23	Spare Thermopile

**A** Block Diagrams, Boards and Pinouts  
LCx<sup>®</sup> Analyzer Service Manual (Text P/N 47278-102)

**Analog Board**

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## Analog Board (pg 9 of 10)

### Connector Pin Callouts (cont)

#### Analog to Motor Driver (cont)

From Analog Bd	To Motor Driver	Remarks
P3A - 24	P3M - 24	Spare Thermopile
P3A - 25	P3M - 25	NC
P3A - 26	P3M - 26	NC
P3A - 27	P3M - 27	AGND
P3A - 28	P3M - 28	Liquid Thermistor
P3A - 29	P3M - 29	AGND
P3A - 30	P3M - 30	Air Thermistor
P3A - 31	P3M - 31	AGND
P3A - 32	P3M - 32	Reag Pk Thermistor
P3A - 33	P3M - 33	AGND
P3A - 34	P3M - 34	Remote Thermistor

#### Analog to PMT HV Supply

From Analog Bd	To PMT HV Supply	Remarks
P5 - 1	P1 - 1	GND
P5 - 2	P1 - 2	-VS
P5 - 3	P1 - 3	+VS
P5 - 4	P1 - 4	+VS
P5 - 5	P1 - 5	+VS
P5 - 6	P1 - 6	-VS
P5 - 7	P1 - 11	HV/1000
P5 - 8	P1 - 8	HV CNTL
P5 - 9	P1 - 12	GND

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## Analog Board (pg 10 of 10)

### Connector Pin Callouts (cont)

#### Analog Bd to Optics Assembly

From Analog Bd	To Optics Assy	Remarks
P4 - 1	P6 - 1	+5V
P4 - 2	P6 - 2	+5V
P4 - 3	P6 - 3	Freq 3 (PMT)
P4 - 4	P6 - 4	DGND
P4 - 5	P6 - 5	DGND
P4 - 6	P6 - 6	Sense
P4 - 7	P6 - 7	DGND
P4 - 8	P6 - 8	AC ERR (Lamp I cont)
P4 - 9	P6 - 9	Freq 4 (Lamp Z)
P4 - 10	P6 - 10	NC

#### Analog to Optics Assembly (cont)

From Analog Bd	To Optics Assy	Remarks
P4 - 11	P6 - 11	SENSE
P4 - 12	P6 - 12	NC
P4 - 13	P6 - 13	DC ERR
P4 - 14	P6 - 14	AGND
P4 - 15	P6 - 15	+15V
P4 - 16	P6 - 16	+15V
P4 - 17	P6 - 17	AGND
P4 - 18	P6 - 18	AGND
P4 - 19	P6 - 19	-15V
P4 - 20	P6 - 20	-15V