## <u>Lakeshore Model 336 Temperature Controller Sensor and</u> <u>Heater Quick Start Guide</u>

Lakeshore 336

Figure 1

1.1 Press input setup (Figure 2).





1.2 Using selection arrows (Figure 2), select appropriate input (Figure 3).

	I
Clake Shore Ender Select InPut: bit Input: Select InPut: bit Input: B Select InPut: bit Input: B Difference Select InPut: bit Input: b Model 336 Temperature Controller	
B1 CURVES LOADED 5/6/2016	

Figure 3

1. Lakeshore 336 Sensor Selection and Set Up

- 1.3 Press enter (Figure 2).
- 1.4 Using selection arrows, select sensor type (Figure 4).



Figure 4

- 1.5 Press enter.
- 1.6 Using selection arrows, select appropriate sensor type (Figure 5).



Figure 5

- 1.7 Press enter.
- 1.8 Using selection arrows, select curve (Figure 6).



Figure 6

- 1.9 Press enter.
- 1.10 Using selection arrows, select appropriate curve (Figure 7).



1.11 Press enter.

1.12 Press escape (Figure 8) to return to home screen displaying temperature values (Figure 8).



Figure 8

If multiple temperature sensors are being used, repeat steps 1.1-1.12. 1.13

## 2. Lakeshore 336 Heater Set Up

2.1 Press output set up (Figure 9).



Figure 9

2.2 Using selection arrows, select appropriate output (Figure 10).

Lake Shore CRYOTRONICS Output Setup:
Select Output. Output 2 Output 3 Output 4
Model 336 Temperature Controller
HB1 CURVES LOADED 5/6/2016

Figure 10

- 2.3 Press enter.
- 2.4 Using selection arrows, select control input (Figure 11).

Output Setup: Output 1 Output Mode: Closed Loop PID Dontrol INDUB Heater Resistance: 25 a Max Current(25a): 2 A (100 W) Power UP Enable: 0ff Heater Out Display: Current SetPoint RamPiay: Current	
Model 336 Temperature Controller	
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Figure 11

- 2.5 Press enter.
- 2.6 Using selection arrows, select the appropriate control input (Figure 12).



Figure 12

- 2.7 Press enter.
- 2.8 Using selection arrows, select heater resistance (Figure 13).

CRYOTRONICS	
Output Setup: Output 1 Output Node: Closed Loop PID Control Input: A: Input A Hax Current(250): 2 A (100 M) Power UP Enable: Off Heater Out Display: Current SetPoint Rameins: Off	
Model 336 Temperature Controller	
Contraction of the second s	
HB1 CURVES LOADED 5/6/2016	
Lake Shore	
Figure 13	

- 2.9 Press enter.
- 2.10 Using selection arrows, select appropriate heater resistance (Figure 14).

CRYOTRONICS	
Output Seturi Dutput 1 Heater Resistance: <mark>50 c</mark> 50 c	
Model 336 Temperature Controller	
HB1 CURVES LOADED 5/6/2016	
CRYOTRONICS	1

Figure 14

- 2.11 Press enter.
- 2.12 Using selection arrows, select max current (Figure 15).

OutPut Setup: Output 1 OutPut Mede: Closed Loop PID Control Input: A: Input A Heater Resistance: 25 a Heater Setup: 2 A (100 M) Power UP Enable: Off Heater Out Display: Current SetUpin Rameins: Unr
Model 336 Temperature Controller
HB1 CURVES LOADED 5/6/2016
Figure 15

- 2.13 Press enter.
- 2.14 Select appropriate max current setting (Figure 16).

Lake Shore Output Setup: Output 1 Max Current(25a): User 0.17(25 H) 1.414 (59 H) 2.4 (150 H) 2.4 (150 H)
HB1 CURVES LOADED 5/6/2016

Figure 16

- 2.15 Press enter.
- 2.16 Press escape
- 2.17 Press heater range (Figure 17).

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	Heater Range		A B C D Arging A
			Arrend Market Arrest Ar



2.18 Using Selection arrows, select appropriate range (Figure 18).

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HB1 CURVES LOADED 5/6/2016
Figure 18

- 2.19 Press enter.
- 2.20 If multiple heaters are being used, repeat steps 2.1-2.19.

STEP 1.1-2.20

## NOTE

Refer to either equipment logbook or equipment label to find appropriate sensor and heater information. Contact a member of the Sample Environment staff with any questions.