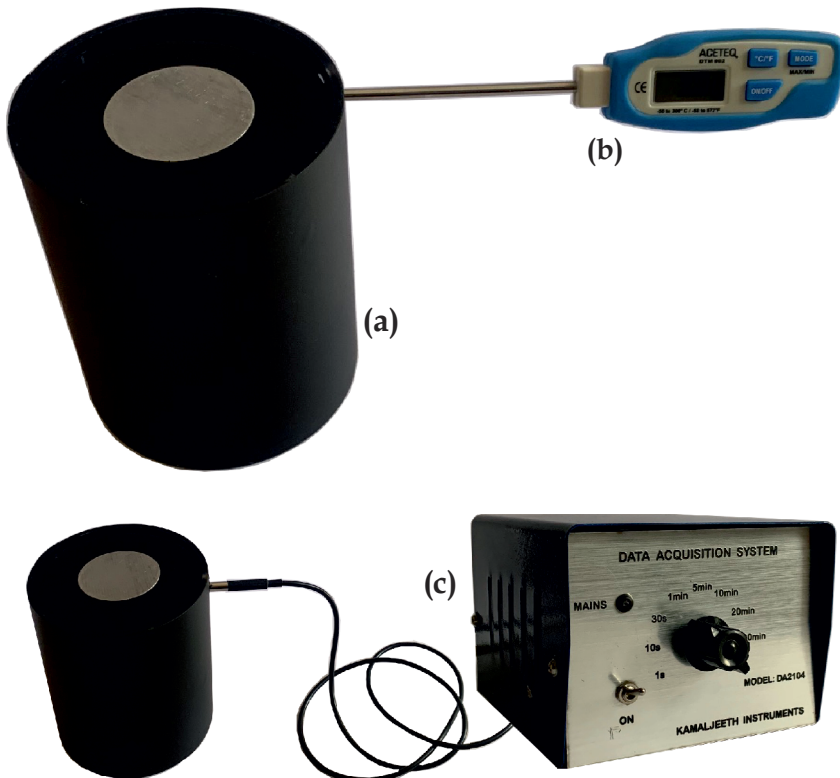


Experiment(s):

1. Determination of Solar constant

(For more details, procedure & manual visit: www.kamaljeeth.net)

Reference : Lab Experiments Journal vol-14, No.4, Page-294



Experiment setup consists:

- Aluminium rod arrangement with specific surface exposed
- Digital thermometer
- Temperature data acquisition system

Specifications:

a) Aluminium rod arrangement with specific surface exposed

Aluminium rod insulated on sides except on surface

b) Thermometer

Type: Digital, probe type

Range: 300 °C

Resolution: 0.1 °C

c) Temperature data acquisition system (data logger)

No. of channels: One

Sensor: Thermometer probe

Temperature logging interval:

Selectable from 1 sec to 30 mins

Software: Provided with PLX-DAQ software

Software capabilities: Acquires date and time from system and logs corresponding

temperatures at set interval

Interface: USB

Output: Logs directly to M S

Excel

Power requirement:

Rated Input: 220 V/50 Hz

or 110 V/60 Hz

Power Consumption: <20 W

	A	B	C	D	E	F	G	H	I
1	Kamaljeeth Instruments								
2	Data Acquisition System	Start Time	System Time	Temperature (°C)					
3		0.03	14:18:58	28.62					
4		1.03	14:18:59	28.56					
5		2.03	14:19:00	28.56					
6		3.04	14:19:01	28.56					
7		4.04	14:19:02	28.56					
8		5.04	14:19:03	28.62					
9		6.04	14:19:04	28.56					
10		7.04	14:19:05	28.56					
11		8.04	14:19:06	28.56					
12		9.05	14:19:07	28.56					
13		10.05	14:19:08	28.56					
14		11.38	14:19:09	28.56					
15		12.05	14:19:10	28.56					
16		13.10	14:19:11	28.56					
17		14.05	14:19:12	28.56					
18		15.38	14:19:13	28.56					
19		16.06	14:19:14	28.56					
20		17.06	14:19:15	28.56					
21		18.07	14:19:16	28.62					
22		19.07	14:19:17	28.56					
23		20.07	14:19:18	28.56					
24		21.07	14:19:19	28.56					
25		22.08	14:19:20	28.56					
26		23.08	14:19:21	28.56					
27		24.08	14:19:22	28.62					



KAMALJEETH INSTRUMENTS

ESTD. 1990

Address: No. 610, 5th main, 8th cross Tatanagar, Bangalore - 560092, INDIA

Website: www.kamaljeeth.net, Email: labexperiments@kamaljeeth.net

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