PHARMA DEVILS

ENGINEERING DEPARTMENT

STANDARD OPERATING PROCEDURE	
Department: Engineering	**SOP No.:**
Title: Operation of Data Logger	**Effective Date:**
Supersedes: Nil	**Review Date:**
Issue Date:	**Page No.:**

1.0 OBJECTIVE

To lay down the procedure for the operation of Data Logger.

2.0 SCOPE

This standard operating procedure (SOP) is applicable for the operation of data logger.

3.0 RESPONSIBILITY.

Engineering Supervisor/Technician will operate the data logger.

4.0 PROCEDURE

4.1 INSTRUMENT DETAILS

4.1.1 Make: MICRO SYSTEM & CONTROL
4.1.2 Power Supply: 230VAC, 50HZ.
4.1.3 Operating temperature: 0-45°C
4.1.4 Input Type: Universal Type
4.1.5 Display: 2digit LED display for channel number.
4.1.5.1 4 digit LED display for process value
4.1.5.2 2 line*16 character LCD display for channel tag ,units status and type.
4.1.6 Status LEDS: RUN- ON run condition
4.1.6.1 PROG- ON in program condition
4.1.6.2 HOLD- On in hold or in manual mode
4.1.6.3 DEG C- ON for unit Deg. C
4.1.7 Alarm status LED: A1- 16 No.s, A2- 16 No.s
4.1.8 Relay LEDS: 16 No.s
4.1.9 Printer interface unit: RS 232 serial connector cable.
4.1.10 Printer: EPSON LX300+

4.2 OPERATION

4.2.1 Ensure printer is connected to printer interface unit and data logger.
4.2.2 Switch ‘ON’ power supply to Data logger and ensure instrument display which include channel name, measuring unit, status and type of sensor used show on the data logger display.
4.2.3 Press the key button PROG/RUN and CH simultaneously change the mode. For changing the mode enter the full security code and then change either to RUN mode or PROGRAM mode by pressing up and down key in the operating panel.

4.2.4 In the PROGRAM mode press the NEXT/PREVIOUS/UP/DOWN arrow keys to change the parameter according to the user define.

4.2.5 After completion of PROGRAM mode change the mode by following the step 5.1.2.3.define above.

4.2.6 In RUN modes ensure that data logger displays current reading of process parameter.

4.2.7 Ensure the process parameter reading from display of data logger.

4.2.8 To hold the require channel press “HOLD/SCAN “ key from operating panel and observe the process parameter of that channel.

4.2.9 To ensue another channels value in hold mode press up/ down arrow key from operating panel.

4.2.10 To view all the channel parameter one by one automatically put data logger in auto mode by return in PROG mode as follow the step 5.1.2.3 and change the program parameter by pressing NEXT/PREVIOUS/UP/DOWN arrow key.

4.2.11 Ensure that the printer port is defined in the data logger in program mode.

4.2.12 According to the data logging time interval, which is, define in the program mode data logger generates the prints of process parameter that shows on the display of the data logger.

4.2.13 Ensure the print out for regular interval of process parameter.

4.3 PREVENTIVE MAINTENANCE

4.3.1 Check input supply terminal for proper tightening.

4.3.2 Check sensor’s connection at input terminal.

4.3.3 Remove cabinet of data loggers and clean it by air blower.

4.3.4 Remove printer unit and clean it by smooth cloth.

4.3.5 Check printer cartridge and replace if necessary.

4.3.6 Note down the observations as per annexure I.

5.0 SAFETY AND PRECAUTIONS:

Not applicable

6.0 REVISION HISTORY

Revision No.	Reason for Revision	Superseded from & date
00	New	--------

7.0 REFERENCES

Manufacturer operating manual of MICRO SYSTEM & CONTROL Data logger.

8.0 ABBREVIATIONS

SOP: Standard Operating Procedure.
LED: Light Emitting Diode.

9.0 ANNEXURE

N/A