i-therm AI-logger 96×96 Data Logger User Manual

Contents

i-therm

AI-logger 96×96 Data Logger

OIM AI-logger V1.2

The OIM AI-logger V1.2 is a device used for logging analog input signals. It has a supply printer port, two alarm outputs, digital input, and PC connectivity.

Product Usage Instructions:

- Connect the power supply to the supply printer port.
- Connect the analog input device to the input terminals provided (PC+, PCDEV+, DEV-).
- Connect the digital input device to the input terminalprovided.
- Connect the PC to the logger using the PC connectivity port.
- Turn on the logger.
- Set the required parameters using the user interface provided.
- The logger will start logging the analog input signals and can be monitored and controlled through the PC interface.

SPECIFICATIONS

1. **DI~PLAY TYPE:**
    - 16X2 YELLOW LCD

2. **INPUT:**
   - Available Units
     - : Refer table (Table NO.1)
   - RES0UJTION
     - : 0.1/0.01/0.001/1.
3. **RELAY OUTPUT**
   - Contact Type
     - : N/0,CM,N/C
   - Contctet Ratins
     - : SA @ ZSOVAC or 30 voe
   - life Expectancy
     - : >S,00,000 operations
   - lsolation
     - : Inherent
4. **FUNCTI0N:**
   - 0utputl/Output2
     - : Alarm outplrts
5. **POWER SUPPLY:**
   - Supply Voltage Consumption
     - : 90-270VAC,50-60hz
6. **PHYSICAL:**
   - Housing
     - : ABS plastic
7. **MEMORY CAPACITY**
   - : Up to 2.SOlakh records
8. **8.PRINTER CONNECTIVITY**
   - : Available through RS-415 connector
9. **CAMMUNICATION**
   - :M0DBUS protocol ls used

BACKPLATE

SUPPLY
- L — 10
- N — 11

Terminal	Label
10	SUPPLY L
11	SUPPLY N
12	
13	NO — ALARM 1
14	CM — ALARM 1
15	NO — ALARM 2
16	CM — ALARM 2
17	
18	

PRINTER PORT

21 20 19

24 23 22

sales@itherm.co.in
www.itherm.co.in

Terminal	Label
1	PC+
2	PC-
3	DEV+
4	DEV-
5	Digital Input
6	Digital Input
7	+5V
8	GND
9	
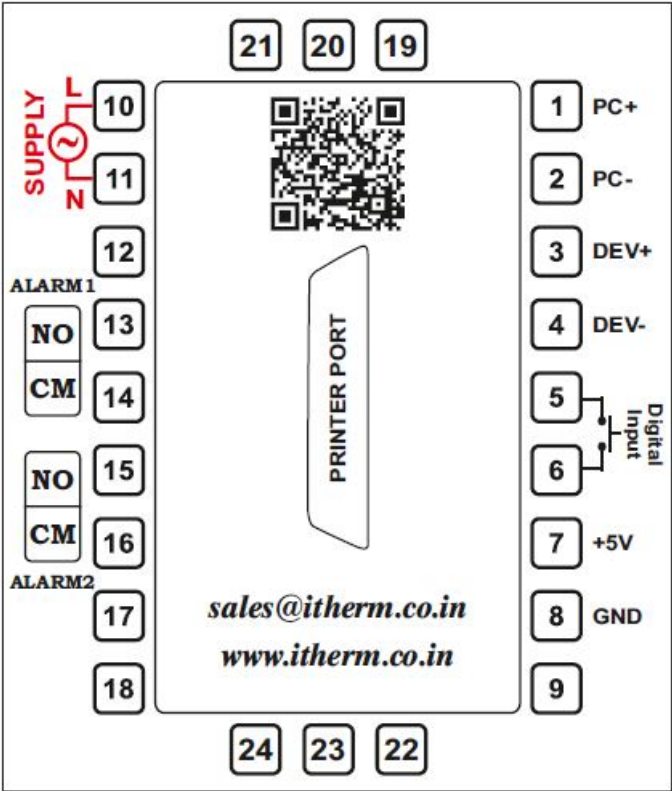
DIMENSIONS
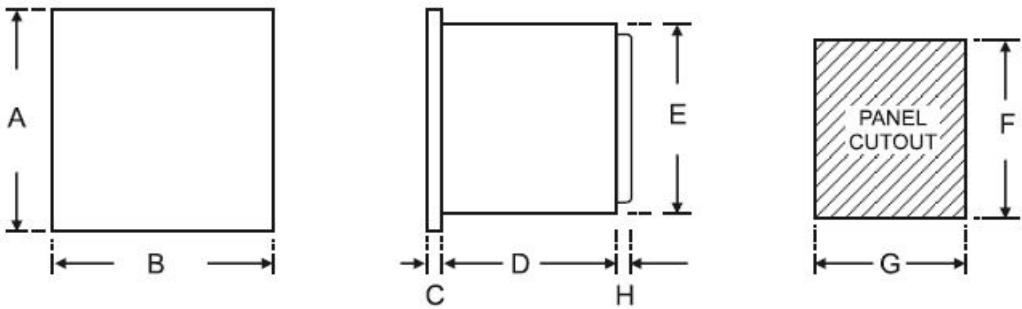
Dim / Model	A	B	C	D	E	F	G	H
I-LOG	96	96	8	110	43	44	44	9

PANEL CUTOUT

INDEX

SETUP

FRONT PANEL KEYS

Symbol	Key Name	Use
⟳	SET	It is used to to enter in any menu it is also used to store the changes.
≫	SHIFT	It is used to shift the cursor and It is also used as a back button
⌃	UP	It is used to scroll up.
⌄	DOWN	It is used to scroll down.
	PRINT	Refer sec.2.5
	BATCH START	It is used to start the batch from front panel of the instrument.

POWER ON SCREEN

```
┌──────────────────────────┐
│                          │
│  INNOVATIVE INSTRUMENTS   │
│                          │
└──────────────────────────┘
             │
             ▼
┌──────────────────────────┐
│          I-LOG           │
│     MODBUS SCANNER       │
│                          │
└──────────────────────────┘
             │
             ▼
┌──────────────────────────┐
│                          │
│        VERSION           │
│                          │
└──────────────────────────┘
```

RUN MODE SCREEN

```
┌──────────────────────┐  ACTUAL DISPLAY   ┌──────────────────────┐
│  DATE: dd:mm:yy      │  VALUE            │  DATE: 13:04:2013    │
│  TIME: hh:mm:ss      │  ─────────▶       │  TIME:  14:35:24     │
└──────────────────────┘                   └──────────────────────┘


┌──────────────────────────┐  ACTUAL DISPLAY  ┌──────────────────────┐
│ PV & SV OF CONNECTED      │  VALUE           │  PV1:142°C           │
│ DEVICES                   │  ────────▶       │                      │
│ PV(DEVICE NUMBER):        │                  │  SV1:100°C           │
│ SV(DEVICE NUMBER):        │                  │                      │
└──────────────────────────┘                   └──────────────────────┘


┌──────────────────────────┐  ACTUAL DISPLAY  ┌──────────────────────┐
│ ERROR IN DEVICE CONNECTION│  VALUE           │   Err.  In  Device 1 │
│    Err.  In  Device 1     │  ────────▶       │      Connection      │
│       Connection          │                  │                      │
└──────────────────────────┘                   └──────────────────────┘
        │ ACTUAL DISPLAY              │ ACTUAL DISPLAY
        │ VALUE                       │ VALUE
        ▼                             ▼
┌──────────────────────┐  ┌──────────────────┐  ┌──────────────────────┐
│ MODE OF OPERATION    │  │ IN LOG MODE      │  │ BATCH STARTED        │
│ BATCH/LOG            │─▶│ INTERVAL:1min    │─▶│ 00:24:33/01:00       │
└──────────────────────┘  └──────────────────┘  └──────────────────────┘


┌──────────────────────────┐  ACTUAL DISPLAY  ┌──────────────────────┐
│ ALARM INDICATION          │  VALUE           │ AL1:ON      AL2:_    │
│                           │  ────────▶       │                      │
│ ALM(DEVICE NUMBER):ON/OFF │                  │ AL3:_       AL4:_    │
└──────────────────────────┘                   └──────────────────────┘
```

SYSTEM CONFIGURATION

To Enter in Main Menu press SHIFT & SET key simultaneously for 3 seconds afer doing this following screen will appear
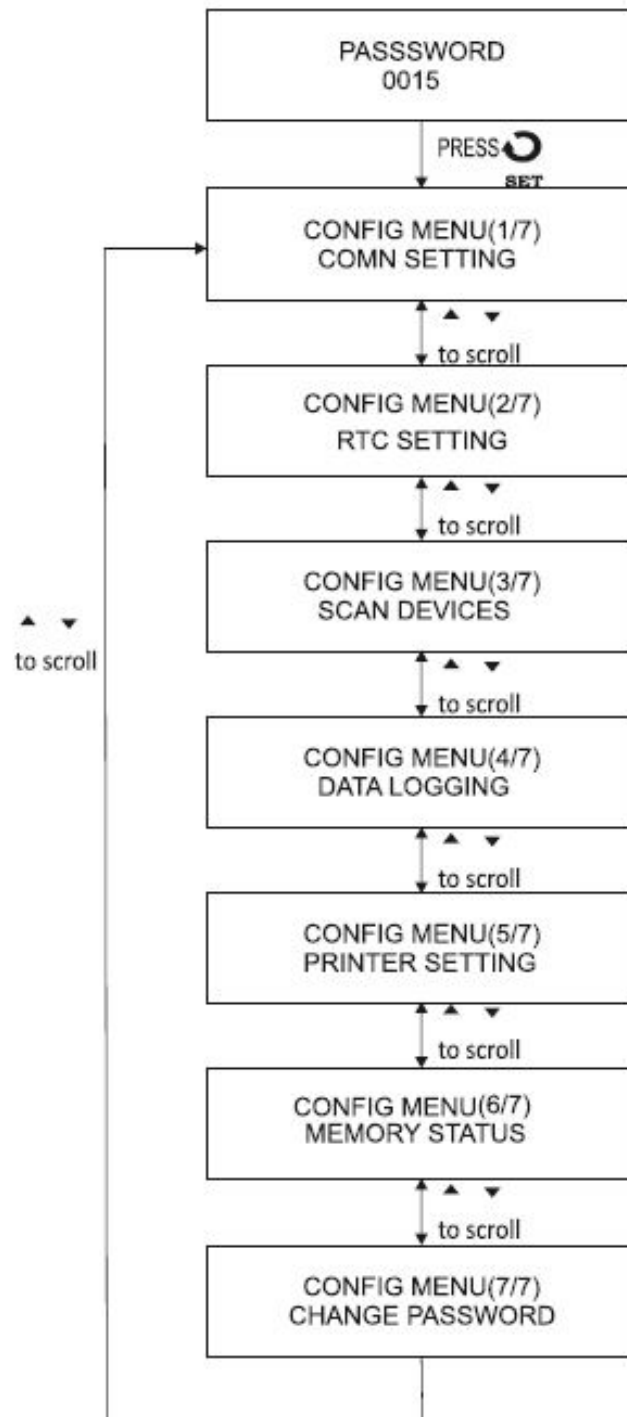
COMMUNICATION SETTING (Flow Chart)

To Enter in this menu press SHIFT & SET key simultaneously after that enter appropriate password afer doing this following screen will appear. Screens with '<' indicates that change is allowable. If you just want to see all the settings(Don't want to change) use .._ …,. to have a look. If you want to see/keep the previous value of the parameter then press shift key for 3 seconds so that '<' will get removed.
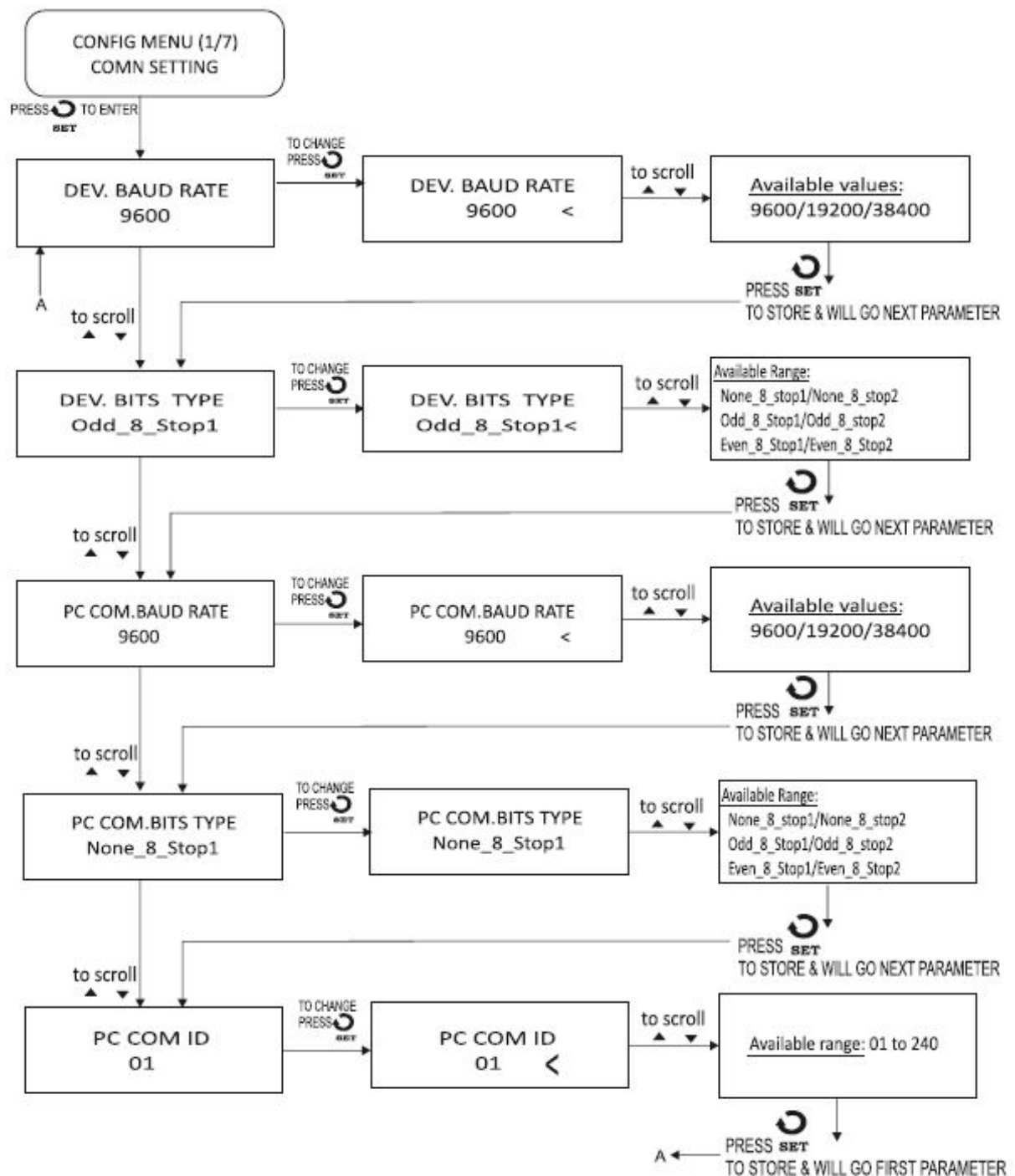
COMMUNICATION SETTING(Descripton}

Basically used for the communication setting between devices & data logger and between data logger &PC simultaneuosly.
There are different parameters available which are as follow.

Parameter	Description	Range	Default Value
DEV. BAUD RATE	It is used to define Baud rate between Device & Data logger To carry out data transfer.	9600/19200/38400	9600
DEV. BITS TYPE	It is used to define Bit Type between Device & Data logger To carry out data transfer.	None_8_stop1/None_8_stop2 Odd_8_Stop1/Odd_8_stop2 Even_8_Stop1/Even_8_Stop2	Odd_8_stop1
PC COM. BAUD RATE	It is used to define Baud rate between Data logger & PC To carry out data transfer.	9600/19200/38400	9600
PC COM. BIT TYPE	It is used to define Bit Type between Data logger & PC To carry out data transfer.	None_8_stop1/None_8_stop2 Odd_8_Stop1/Odd_8_stop2 Even_8_Stop1/Even_8_Stop2	None_8_stop1
PC COM ID	In this we will define the number of data loggers which are going to be connected with the pc.	0 to 240	01

RTC SETTING

(Real Time Clock setting)

It is used to set date & time in data logger. To Enter in this menu press SHIFT & SET key simultaneously after that enter appropriate password afer doing this, following screen will appear. Screens with '<' indicates that change is allowable. If you just want to see all the settings(Don't want to change) use…,. ,., to have a look. If you want to see/keep the previous value of the parameter then press shift some time so that '<' will get removed.
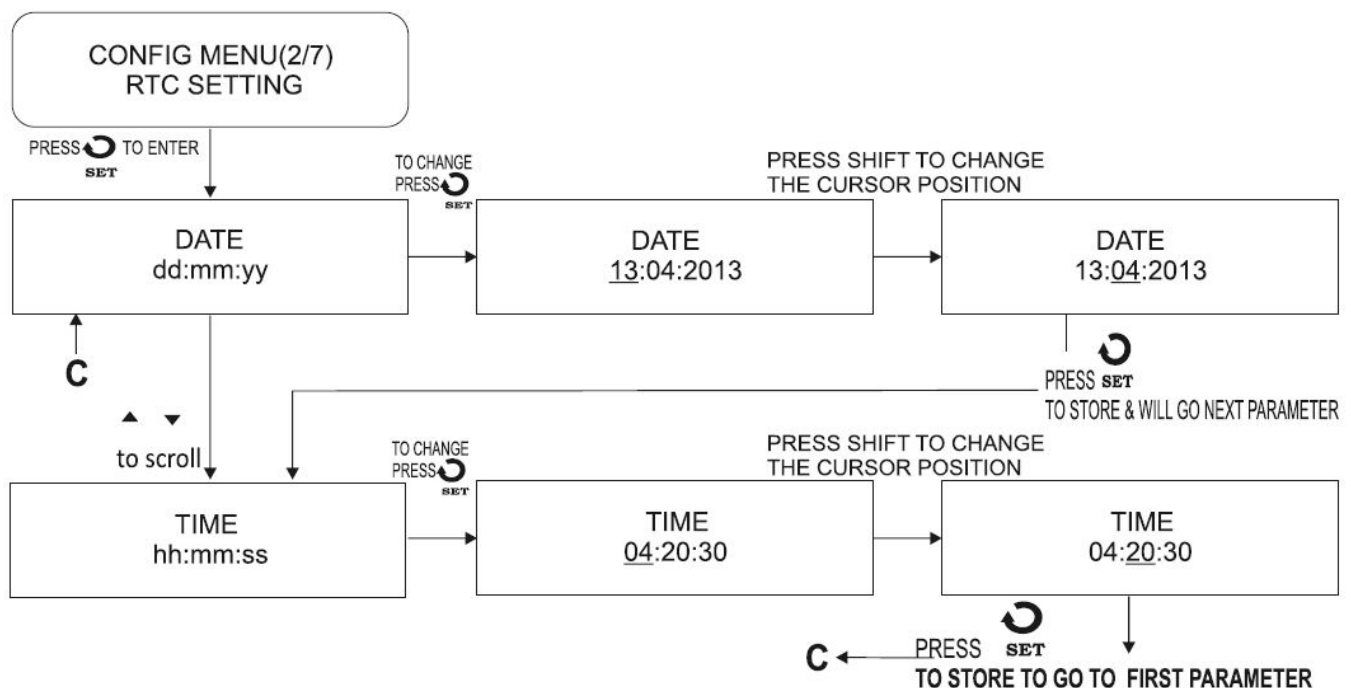
SCAN DEVICE FLOW CHART

To Enter in this menu press SHIFT & SET key simultaneously after that enter appropriate password afer doing this following screen will appear. Screens with '<' indicates that change is allowable. If you just want to see all the settings(Don't want to change) use …_ .,,. to have a look. If you want to see/keep the previous value of the parameter then press shift some time so that '<' will get removed.

PRESS ○ TO ENTER
SET

TOTAL DEVICES
(DEVICES CONNECTED TO I-LOG)

TO CHANGE
PRESS ○
SET

▲ ▼
to scroll

TOTAL DEVICES
1   <

AVAILABLE RANGE:
1 TO 4

○
PRESS SET
TO STORE & WILL GO NEXT PARAMETER

▲ ▼
to scroll

CONFIGURE
DEVICE(DEVICE NUMBER)

▲ ▼
to scroll

CONFIGURE
DEVICE 1

SAME SCREEN WILL APPEAR
FOR OTHER DEVICES WITH PROPER DEVICE NUMBER

(CONFIGURATION PROCESS WILL BE CARRIED OUT IN FOLLOWING MANNER FOR OTHER DEVICES.
HERE WE ARE CONSIDERING DEVICE1)

PRESS ○ TO ENTER
SET

Config screens	Change screens	Available range	Ref
CONFIGURE DEVICE 1			H1
DEVICE 1 ID 1	DEVICE 1 ID 1 <	AVAILABLE RANGE 1 TO 240	A1
DEVICE1 MAKE TAIE	DEVICE1 MAKE TAIE <	AVAILABLE RANGE REFER TABLE	B1
PV 1 RESOLUTION 1	PV 1 RESOLUTION 1 <	AVAILABLE RANGE 1/0.1/0.01/0.001	C1
PV 1 UNIT Centigrade °C	PV 1 UNIT Centigrade °C <	AVAILABLE RANGE REFER TABLE NO.1	D1
DEVIATION1 ALARM O/P ENABLE	DEVIATION1 ALARM O/P ENABLE <	AVAILABLE OPTIONS ENABLE/DISABLE	E1
DEVIATION1 SP 5	DEVIATION1 SP 5 <	AVAILABLE RANGE -99 TO 99	F2
DEVIATION2 SP 5	DEVIATION2 SP 5 <	AVAILABLE RANGE -99 TO 99	G2
HYSTERESIS1 SP 2	HYSTERESIS1 SP 2 <	AVAILABLE RANGE 0 TO 99	H1

TO CHANGE PRESS ○ SET   to scroll   PRESS ○ SET

SCAN DEVICES(DESCRIPTION}

It is used to define number of devices which are connected to the data logger. The number of devices that can be connected maximum up to 4.

Parameter	Description	Range	Default Value
DEVICE (X) ID	In this we are going to set the device ID of the connected device to data logger for identification of that device.	1 to 240	-
DEVICE (X) MAKE	In this we are going to specify make of the connected device	I-therm, Taie, Vertex, Fuji, Eurotherm, West	TAIE
PV (X) RESOLUTION	It is used to set the resolution of the data logger display in order to display exact reading	1/0.1/0.01/0.001	0.1
PV (X) UNIT	It is used to set the unit in data logger in order to display the quantity being measured by the device connected to the logger	Refer Table:1	Centigrade °C
DEV. (X) ALARM O/P	It is used to enable the alarm output.	Enable/Disable	Disable
DEVIATION1 SP	It is used to provide 1st alarm deviation.	-9.999 to 9999	0
DEVIATION2 SP	It is used to provide 2nd alarm deviation	-9.999 to 9999	0
HYSTERISIS(X) SP	Depending on the value of the hysterisis alarm will be acknowledged based on the current PV	0.001 to 99	0.1

Table No.1 (Available Units):

Options	Description
°C	Degree Centigrade
°F	Degree Farenheit
°K	Degree Kelvin
°EU	Engineering Units
%	Percentage
Pa	Pascals
MPa	Mpascals
KPa	Kpascals
bar	Bar
mbar	Milli bar
psi	PSI
kg/sq.cm	kg/sq.cm
mmH2O	mm water usage
inH2O	inches water gauge
mmHg	mm mecury
Torr	Torr
liter/hr	Litres per hour
liter/min	Litres per minutes
%RH	% Relative Humidity

Option	Description
A	Amps
mA	Milli amps
mV	Milli volts
ohms	Ohms
ppm	Parts per million
rpm	Revolution per Minute
mSec	Milli seconds
Sec	Seconds
min	Minutes
hrs	Hours
PH	PH
%PH	%PH
miles/hr	Miles per hour
mg	Milli grams
g	Grams
kg	Kilo grams
%O2	%O2
%Co2	%Co2
%CP	%Carbon
V	Volts

DATA LOGGING(Flow Chart)

To Enter in this menu press SHIFT & SET key simultaneously after that enter appropriate password afer doing this following screen will appear. Screens with '<' indicates that change is allowable. If you just want to see all the settings(Don't want to change) use • T to have a look. If you want to see/keep the previous value of the parameter then press shift some time so that '<' will get removed.

(NOTE: If we select BATCH LOG MODE, SCREENS WILL APPEAR AS FOLLOW..).

```
┌─────────────────────────┐
│   CONFIG MENU(4/7)       │
│   DATA LOGGING           │
└─────────────────────────┘

PRESS ⟲ TO ENTER          TO CHANGE                    ▲  ▼
      SET                 PRESS ⟲                      to scroll
                               SET
┌─────────────────────┐   ┌─────────────────────┐   ┌─────────────────────────┐
│   RECOD TYPE        │   │   RECORD TYPE       │   │ AVAILABLE OPTIONS:      │
│   BATCH LOG MODE    │ → │   BATCH LOG MODE  < │ → │ BATCH LOG MODE          │
│                     │   │                     │   │ ONLY BATCH MODE         │
└─────────────────────┘   └─────────────────────┘   │ ONLY LOG MODE           │
                                                      └─────────────────────────┘
        ▲  ▼                                                      ⟲
   A2       ↓ to scroll through menu depending            PRESS  SET
              on recod type                               TO STORE
```

(NOTE:If we select BATCH LOG MODE, SCREENS WILL APPEAR AS FOLLOW)

```
                          TO CHANGE                       ▲  ▼
                          PRESS ⟲                         to scroll
                               SET
┌─────────────────────┐   ┌─────────────────────┐   ┌─────────────────────────┐
│   BATCH INTERVAL    │   │   BATCH INTERVAL    │   │ AVAILABLE RANGE:        │
│   SEC :             │ → │   SEC :         <   │ → │ 10 to 600 SEC           │
└─────────────────────┘   └─────────────────────┘   └─────────────────────────┘
 ▲  ▼                                    PRESS ⟲ To store &
to scroll through menu depending              SET  will go to next parameter
on recod type
```

```
                          TO CHANGE                       ▲  ▼
                          PRESS ⟲                         to scroll
                               SET
┌─────────────────────┐   ┌─────────────────────┐   ┌─────────────────────────┐
│   MAX BATCH DUR     │   │   MAX BATCH DUR:    │   │ AVAILABLE RANGE:        │
│   HH:MM=00:10       │ → │   HH:MM=00:10  <    │ → │ 00:00 to 99:59          │
└─────────────────────┘   └─────────────────────┘   └─────────────────────────┘
 ▲  ▼                                    PRESS ⟲ To store &
to scroll through menu depending              SET  will go to next parameter
on recod type
```

```
                          TO CHANGE                       ▲  ▼
                          PRESS ⟲                         to scroll
                               SET
┌─────────────────────┐   ┌─────────────────────┐   ┌─────────────────────────┐
│   START IP TYPE     │   │   START IP TYPE     │   │ AVAILABLE OPTIONS:      │
│   FRONT KEY         │ → │   FRONT KEY  <      │ → │ FRONT KEY               │
│                     │   │                     │   │ CHANNEL PV              │
└─────────────────────┘   └─────────────────────┘   │ DIGITAL IP              │
                                                      └─────────────────────────┘
 ▲  ▼                                    PRESS ⟲ To store &
to scroll through menu depending              SET  will go to next parameter
on recod type
```

```
                          TO CHANGE                       ▲  ▼
                          PRESS ⟲                         to scroll
                               SET
┌─────────────────────┐   ┌─────────────────────┐   ┌─────────────────────────┐
│   LOG REC INTERVAL  │   │   LOG REC INTERVAL  │   │ AVAILABLE RANGE:        │
│   MIN:10            │ → │   MIN:10        <   │ → │ 99 MINUTES              │
└─────────────────────┘   └─────────────────────┘   └─────────────────────────┘
        ↓                                                      PRESS ⟲
        ⟲                                                           SET
A2 ←  PRESS SET                                               ↓
      TO STORE & TO GO TO  FIRST PARAMETER                   A2
```

(NOTE: If ONLY LOG MODE SCREENS WILL APPEAR AS FOLLOWS)

(NOTE: If ONLY BATCH LOG MODE SCREENS WILL APP~AR AS FOLLOWS)

(NOTE: Following screens will appear depending on the type of start input)

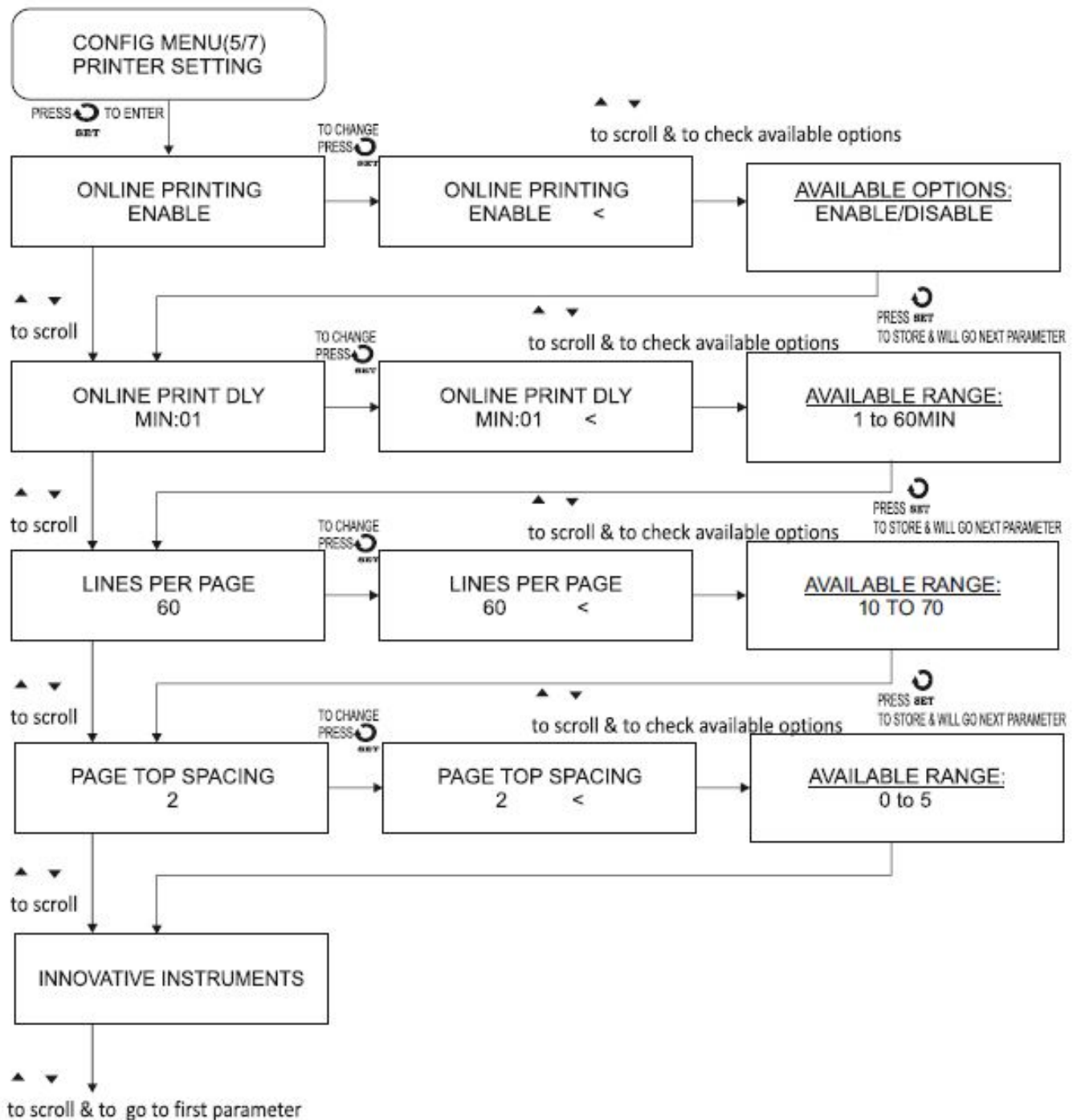**(NOTE:If ONLY BATCH LOG MODE SCREENS WILL APPEAR AS FOLLOWS)**

TO CHANGE
PRESS SET

| BATCH INTERVAL SEC : | → | BATCH INTERVAL SEC : < | to scroll → | AVAILABLE RANGE: 10 to 600 SEC |

▲ ▼
to scroll

PRESS SET
TO STORE & WILL GO NEXT PARAMETER

TO CHANGE
PRESS SET

| MAX BATCH DUR HH:MM=00:10 | → | MAX BATCH DUR: HH:MM=00:10 < | to scroll → | AVAILABLE RANGE: 00:00 to 99:59 |

▲ ▼
to scroll

PRESS SET
TO STORE & WILL GO NEXT PARAMETER

TO CHANGE
PRESS SET

| START IP TYPE FRONT KEY | → | START IP TYPE FRONT KEY < | to scroll → | AVAILABLE OPTIONS: FRONT KEY CHANNEL PV DIGITAL IP |

(NOTE: Following screens will appear depending on the type of start input)

PRESS SET

| START IP TYPE FRONT KEY | → A2 | | AVAILABLE RANGE: DEVICE1 TO DEVICE2 |

PRESS SET TO ENTER

TO CHANGE PRESS SET

| START IP TYPE CHANNEL PV | → | START PV FROM DEVICE:1 | → | START PV FROM DEVICE:1 < |

PRESS SET
TO STORE & WILL GO NEXT PARAMETER

PRESS SET TO ENTER

TO CHANGE PRESS SET

| START PV SP >100 °C | → | START PV SP ≥100 °C | → | AVAILABLE OPTIONS: >,< |

PRESS SET
STORE & WILL GO NEXT PARAMETER

PRESS SET TO ENTER

TO CHANGE PRESS SET

| STOP PV FROM DEVICE:1 | → | STOP PV FROM DEVICE:1 < | → | AVAILABLE RANGE: DEVICE1 TO DEVICE2 |

PRESS SET
STORE & WILL GO NEXT PARAMETER

PRESS SET TO ENTER

TO CHANGE PRESS SET

| START PV SP >100 °C | → | START PV SP ≥100 °C | → | AVAILABLE OPTIONS: >,< |

B2 IN BATCH AND LOG MODE
OR
A2 IN ONLY BATCH MODE

TO CHANGE
PRESS SET

| START IP TYPE DIGITAL IP | → | START BATCH WHEN I/P OPEN < | PRESS SET → To store & then it will go to the appropriate screen depending upon the type of mode. |

B2 IF BATCH LOG MODE
OR
A2 IF ONLY BATCH MODE

DATA LOGGING(DESCRIPTION)

Basically it is used to keep the track of each devices connected. There are two ways in which we are going to keep the track that is Batch and Log. **BATCH MODE :**In batch we are going to provide the start and end of the batch so that data is going to get logged during that time span only after that no tracking. LOG MODE: In this we are going to log the data after specified duration of time given by us(user)

Parameter	Description	Range	Default Value
RECORD TYPE	In this we are going to select the recording method	BATCH-LOG MODE ONLY LOG MODE ONLY BATCH MODE	BATCH-LOG MODE
BATCH INTERVAL (IF ONLY BATCH/BATCH-LOG MODE SELECTED)	It is used to specify the batch interval, based on that interval data will be tracked eg. If interval is of 10sec then data will be tracked after every 10sec till the specified duration	10 to 600 sec	10sec
MAX BATCH DUR (IF ONLY BATCH/BATCH-LOG MODE SELECTED)	It is used to specify the duration for which batch data recording is going to be carried out	00:00 to 99:59 (HH:MM)	01:00
START IP TYPE (IF ONLY BATCH/BATCH-LOG MODE SELECTED)	It is used to provide start and stop condition for batch data recording	FRONT KEY, CHANNEL PV, DIGITAL INPUT	FRONT KEY
FRONT KEY (IF ONLY BATCH/BATCH-LOG MODE SELECTED)	Start and stop of the batch can be carried out by the batch key on top left of the instrument	-	-
CHANNEL PV (IF ONLY BATCH/BATCH-LOG MODE SELECTED)	It is used to give start and stop condition based on the PV of any of the connected device.	-	-
START PV FROM (IF CHANNEL PV SELECTED)	In this based on the number of given devices, PV of that device is used as a start condition	Connected devices	Device 1
START PV SP (IF CHANNEL PV SELECTED)	Depending on current value of the PV or condition imposed on PV of the specified device start of batch takes place.	>,<	> 100.0
STOP PV FROM (IF CHANNEL PV SELECTED)	Depending on current value of the PV OR condition imposed on PV of the specified device stop of batch takes place.	Connected devices	Device 1
STOP PV SP (IF CHANNEL PV SELECTED)	Depending on current value of the PV OR condition imposed on PV of the specified device stop of batch takes place.	>,<	> 150.0
DIGITAL INPUT (IF ONLY BATCH/BATCH-LOG MODE SELECTED)	It is used to provide start and stop condition based on digital input at the back of the instrument.	WHEN IP CLOSED WHEN IP OPEN	When IP Closed
LOG INTERVAL (IF ONLY LOG/BATCH-LOG MODE SELECTED)	In this we are going to specify the log recording interval, after every specified interval data will be tracked	1 to 90 minutes	05

PRINTER SETTING(Flow Chart)

To Enter in this menu press SHIFT & SET key simultaneously after that enter appropriate password afer doing this following screen will appear. Screens with '<' indicates that change is allowable. If you just want to see all the settings(Don't want to change) use . T to have a look. If you want to see/keep the previous value of the parameter then press shift some time so that '<' will get removed.

PRESS ⟳ TO ENTER
SET

TO CHANGE
PRESS ⟳
SET

▲ ▼
to scroll & to check available options

ONLINE PRINTING
ENABLE

ONLINE PRINTING
ENABLE   <

AVAILABLE OPTIONS:
ENABLE/DISABLE

▲ ▼
to scroll

TO CHANGE
PRESS ⟳
SET

▲ ▼
to scroll & to check available options

⟳
PRESS SET
TO STORE & WILL GO NEXT PARAMETER

ONLINE PRINT DLY
MIN:01

ONLINE PRINT DLY
MIN:01   <

AVAILABLE RANGE:
1 to 60MIN

▲ ▼
to scroll

TO CHANGE
PRESS ⟳
SET

▲ ▼
to scroll & to check available options

⟳
PRESS SET
TO STORE & WILL GO NEXT PARAMETER

LINES PER PAGE
60

LINES PER PAGE
60   <

AVAILABLE RANGE:
10 TO 70

▲ ▼
to scroll

TO CHANGE
PRESS ⟳
SET

▲ ▼
to scroll & to check available options

⟳
PRESS SET
TO STORE & WILL GO NEXT PARAMETER

PAGE TOP SPACING
2

PAGE TOP SPACING
2   <

AVAILABLE RANGE:
0 to 5

▲ ▼
to scroll

INNOVATIVE INSTRUMENTS

▲ ▼
to scroll & to go to first parameter

PRINTER SETTING(DESCRIPTION)

It will provide us options to make use of a printer during the process of data logging based on our convenience.
Their are following options

Parameter	Description	Range	Default Value
ONLINE PRINTING	It will allow us to do online or continuous printing of the tracked value after every specified interval of the time.	ENABLE/DISABLE	DISABLE
ONLINE PRINT DLY	In this we are going to specify the time interval used for online printing.	Available range: 1 to 60min	1
LINES PER PAGE	In this we are going to specify the number of lines that are going to get printed on the paper	10 to 70	60
PAGE TOP SPACING	In this we are going to specify the line spacing from the top while printing.	0 to 5	2
INNOVATIVE INSTRUMENTS	A name is also going to be printed on the top of the paper that can be any thing which user wants to print.	-	

MEMORY STATUS(Flow Chart)

To Enter in this menu press SHIFT & SET key simultaneously after that enter appropriate password afer doing this following screen will appear. Screens with '<' indicates that change is allowable. If you just want to see all the settings(Don't want to change) use • T to have a look. If you want to see/keep the previous value of the parameter then press shift some time so that '<' will get removed.

PRESS ◯ TO ENTER
SET

MEM.OVERWRITE
NO

TO CHANGE
PRESS ◯
SET

MEM.OVERWRITE
NO   <

to scroll
▲ ▼

AVAILABLE OPTIONS:
YES/NO

PRESS SET
TO STORE & WILL GO NEXT PARAMETER

▲ ▼
to scroll

MEM.USAGE
_%

TO CHANGE
PRESS ◯
SET

MEM.USAGE
_%   <

to scroll
▲ ▼

AVAILABLE OPTIONS:
0% to 100%

PRESS SET
TO STORE & WILL GO NEXT PARAMETER

▲ ▼
to scroll

LOG UPLOAD
ENABLED

TO CHANGE
PRESS ◯
SET

LOG UPLOAD
ENABLED

to scroll
▲ ▼

AVAILABLE OPTIONS:
ENABLE/DISABLE

PRESS SET
TO STORE & WILL GO NEXT PARAMETER

▲ ▼
to scroll

ENTER LOG DATE
dd:mm:yy

TO CHANGE
PRESS ◯
SET

ENTER LOG DATE
dd:mm:yy

▲ ▼
to scroll & shift key to move cursor

PRESS SET
TO STORE & WILL GO NEXT PARAMETER

▲ ▼
to scroll

LAST UPLOAD DATE
dd:mm:yy

▲ ▼
to scroll

CLEAR LOG
NO

TO CHANGE
PRESS ◯
SET

CLEAR LOG
NO   <

AVAILABLE OPTIONS:
YES/NO

▲ ▼
to scroll & it will go to first parameter

NO
A3

PRESS ◯ SET
TO STORE

YES

CONFIRM CLEAR
YES

MEMORY STATUS(DESCRIPTION}

It is used to do some memory settings. Options as follows

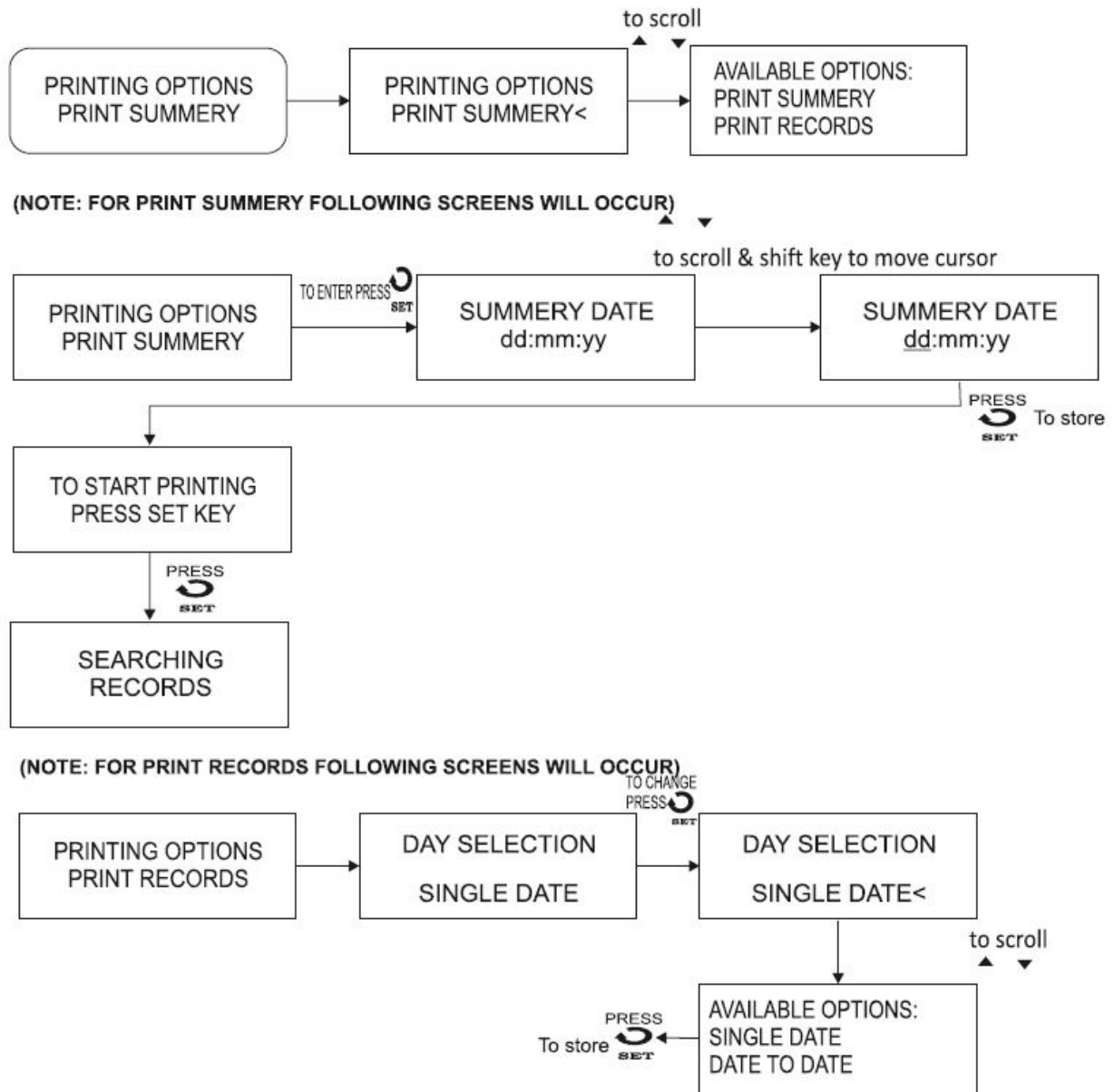| Parameter	Description	Range	Default Value
MEM.OVERWRITE	In this we are going to decide whether we are going to overwrite on the given memory or not	YES/NIO	NO
MEM.USAGE	It will specify the overall memory usage in percentage.	0 to 100%	-
CLEAR LOG	It used to delete the stored records	YES/NO	NO
LOG UPLOAD	It will allow data logging.	ENABLE/DISABLE	ENABLE
ENTER LOG DATE	In this we are going to enter date from which we want logged data	dd:mm:yy	-
LAST UPLOAD DATE	It will show date on which last data logging carried out.	dd:mm:yy	-

CHANGE PASSWORD

IN THIS WE CAN CHANGE THE PASSWORD WHICH WE NEED TO ACCESS MAIN MENU
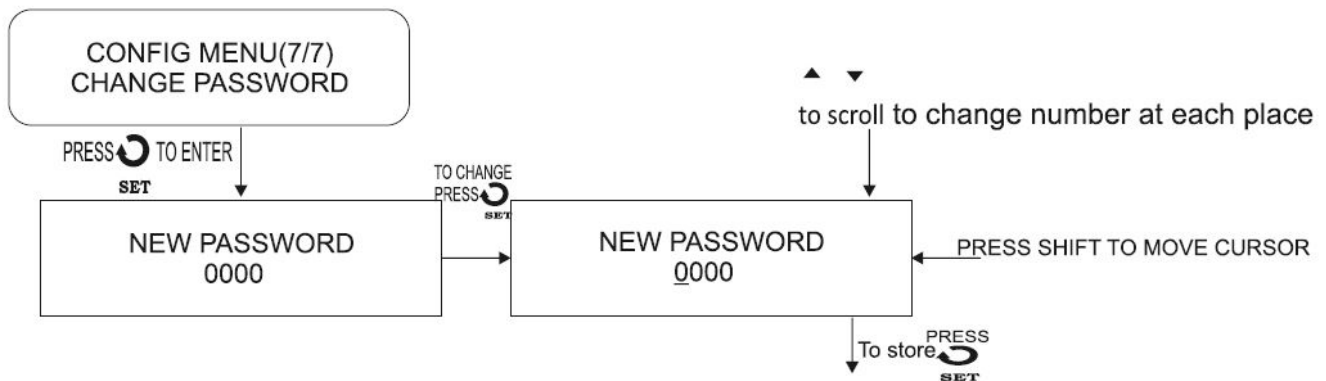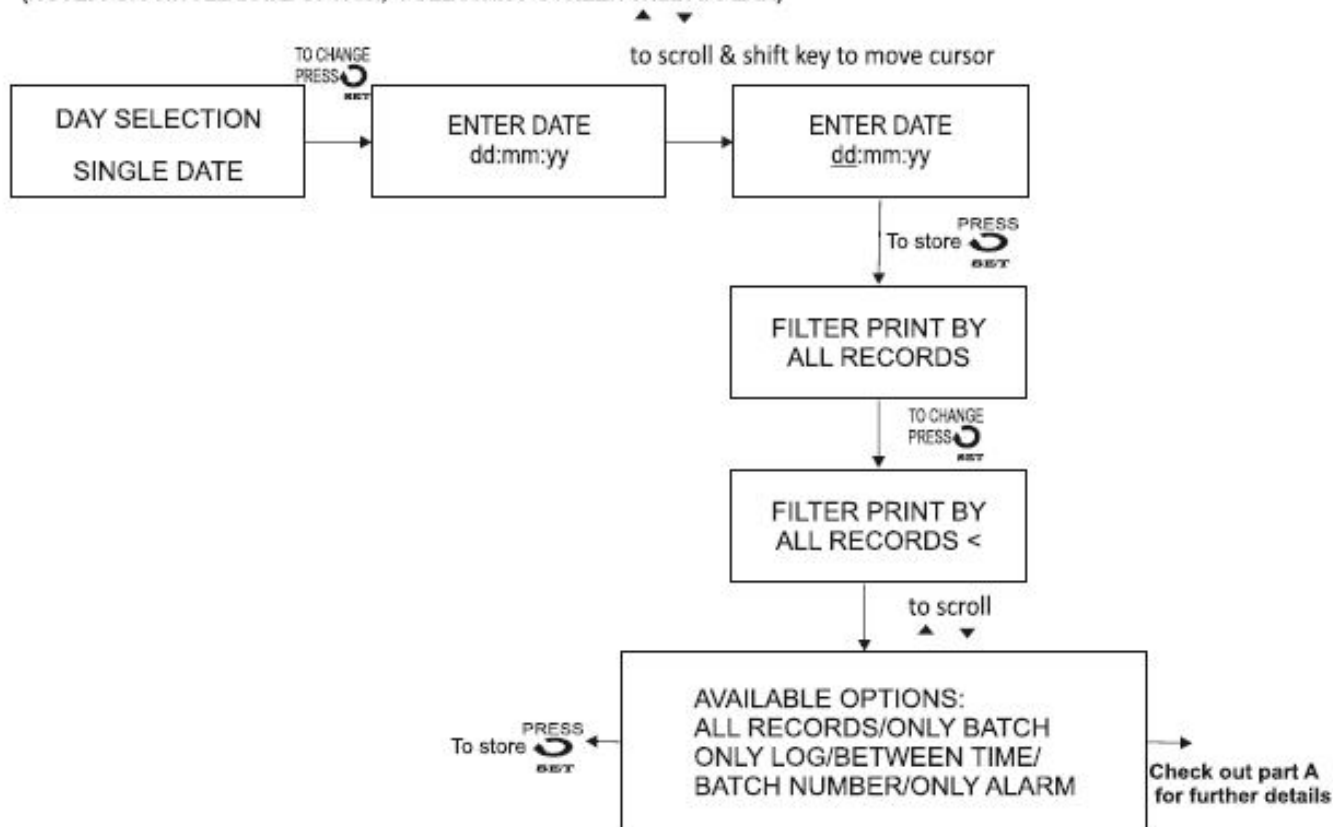

TO ENTER IN THIS MENU PRESS PRINT KEY FOR 3SECONDS

(NOTE: FOR PRINT SUMMERY FOLLOWING SCREENS WILL OCCUR)

```
                                                      to scroll
                                                        ▲  ▼
┌─────────────────────┐   ┌─────────────────────┐   ┌─────────────────────┐
│  PRINTING OPTIONS   │──▶│  PRINTING OPTIONS   │──▶│  AVAILABLE OPTIONS:  │
│  PRINT SUMMERY      │   │  PRINT SUMMERY<     │   │  PRINT SUMMERY       │
└─────────────────────┘   └─────────────────────┘   │  PRINT RECORDS       │
                                                     └─────────────────────┘

(NOTE: FOR PRINT SUMMERY FOLLOWING SCREENS WILL OCCUR)    ▲  ▼

                                            to scroll & shift key to move cursor

┌─────────────────────┐              ┌─────────────────────┐   ┌─────────────────────┐
│  PRINTING OPTIONS   │ TO ENTER PRESS│  SUMMERY DATE       │──▶│  SUMMERY DATE       │
│  PRINT SUMMERY      │──────SET─────▶│  dd:mm:yy           │   │  dd:mm:yy           │
└─────────────────────┘              └─────────────────────┘   └─────────────────────┘

                                                                PRESS
                                                                  SET   To store

┌─────────────────────┐
│  TO START PRINTING  │
│  PRESS SET KEY      │
└─────────────────────┘

         PRESS
           SET

┌─────────────────────┐
│  SEARCHING          │
│  RECORDS            │
└─────────────────────┘

(NOTE: FOR PRINT RECORDS FOLLOWING SCREENS WILL OCCUR)
                                                    TO CHANGE
                                                    PRESS SET

┌─────────────────────┐   ┌─────────────────────┐   ┌─────────────────────┐
│  PRINTING OPTIONS   │──▶│  DAY SELECTION      │──▶│  DAY SELECTION      │
│  PRINT RECORDS      │   │                     │   │                     │
│                     │   │  SINGLE DATE        │   │  SINGLE DATE<       │
└─────────────────────┘   └─────────────────────┘   └─────────────────────┘

                                                              to scroll
                                                               ▲  ▼

                              PRESS             ┌─────────────────────┐
                      To store   SET ◀──────────│  AVAILABLE OPTIONS:  │
                                                │  SINGLE DATE         │
                                                │  DATE TO DATE        │
                                                └─────────────────────┘
```
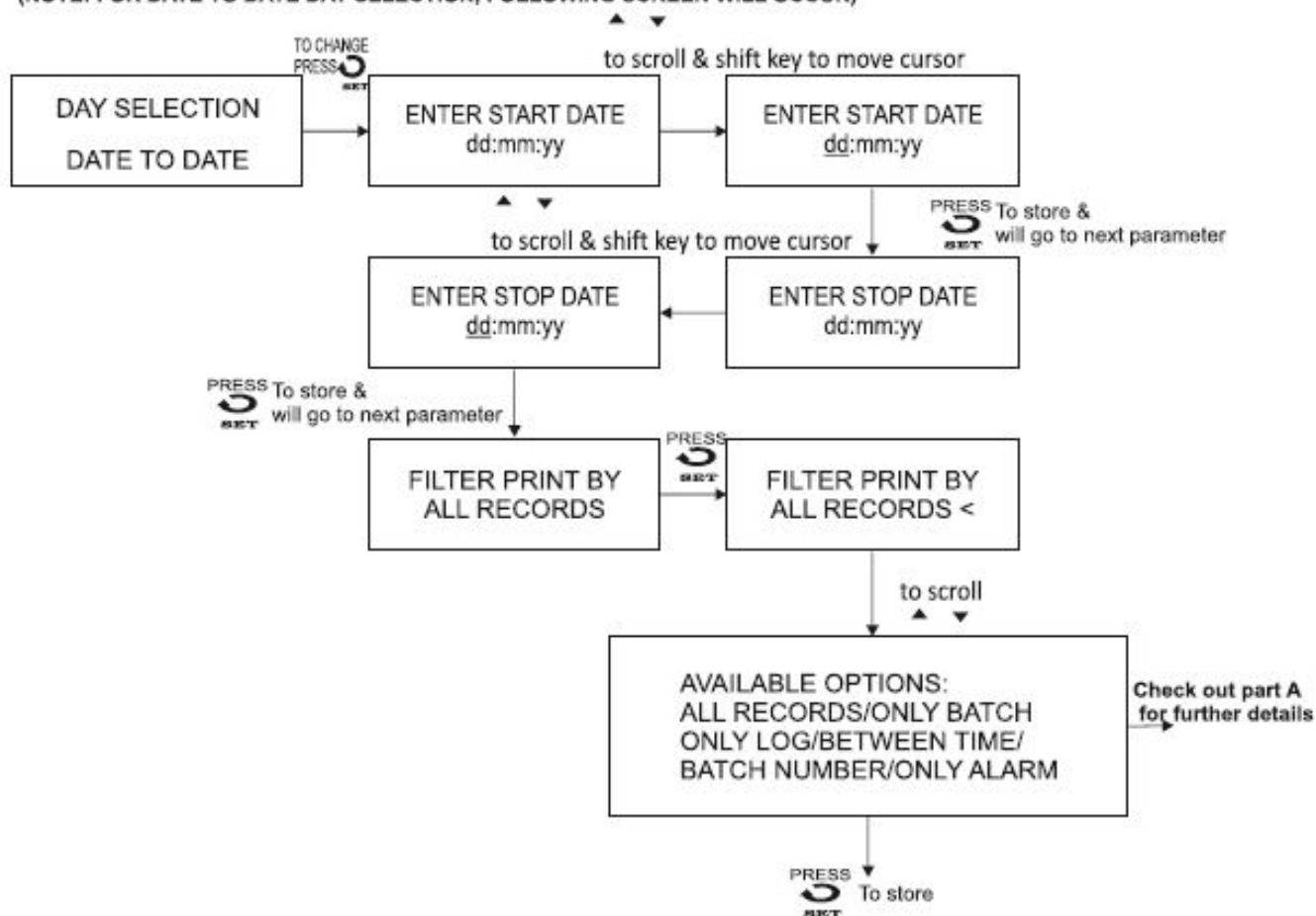
(NOTE: FOR SINGLE DATE OPTION, FOLLOWING SCREEN WILL APPEAR)

(NOTE: FOR DATE TO DATE DAY SELECTION, FOLLOWING SCREEN WILL OCCUR)

(NOTE: FOR SINGLE DATE OPTION, FOLLOWING SCREEN WILL APPEAR)

to scroll & shift key to move cursor

TO CHANGE PRESS SET

| DAY SELECTION SINGLE DATE | → | ENTER DATE dd:mm:yy | → | ENTER DATE dd:mm:yy |

To store PRESS SET

FILTER PRINT BY ALL RECORDS

TO CHANGE PRESS SET

FILTER PRINT BY ALL RECORDS <

to scroll

To store PRESS SET

AVAILABLE OPTIONS:
ALL RECORDS/ONLY BATCH
ONLY LOG/BETWEEN TIME/
BATCH NUMBER/ONLY ALARM

Check out part A for further details

(NOTE: FOR DATE TO DATE DAY SELECTION, FOLLOWING SCREEN WILL OCCUR)

to scroll & shift key to move cursor

TO CHANGE PRESS SET

| DAY SELECTION DATE TO DATE | → | ENTER START DATE dd:mm:yy | → | ENTER START DATE dd:mm:yy |

to scroll & shift key to move cursor

PRESS SET To store & will go to next parameter

| ENTER STOP DATE dd:mm:yy | ← | ENTER STOP DATE dd:mm:yy |

PRESS SET To store & will go to next parameter

| FILTER PRINT BY ALL RECORDS | PRESS SET → | FILTER PRINT BY ALL RECORDS < |

to scroll

AVAILABLE OPTIONS:
ALL RECORDS/ONLY BATCH
ONLY LOG/BETWEEN TIME/
BATCH NUMBER/ONLY ALARM

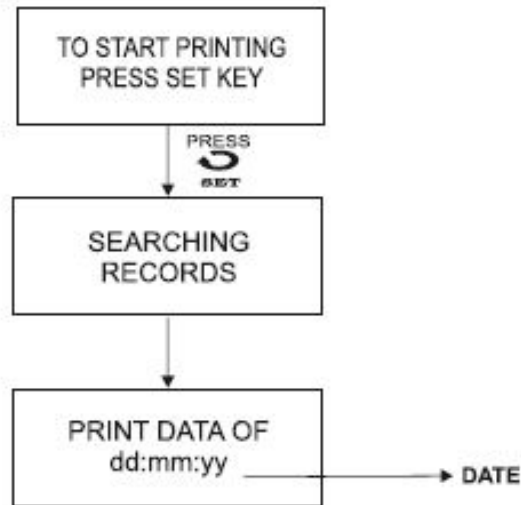Check out part A for further details

PRESS SET To store

Part A

(NOTE: IF WE SELECT ALL RECORDS, ONLY BATCH, ONLY LOG, ONLY ALARM, FOLLOWING SCREENS WILL APPEAR)
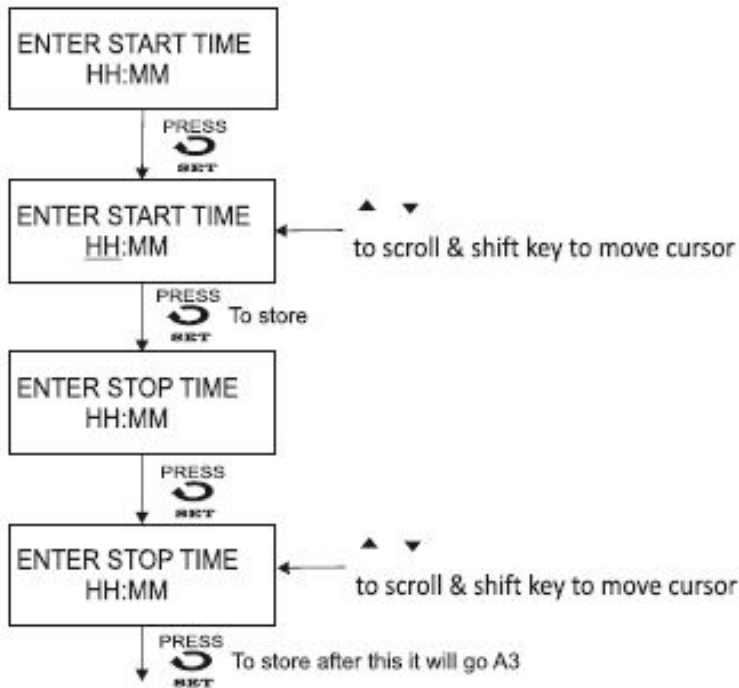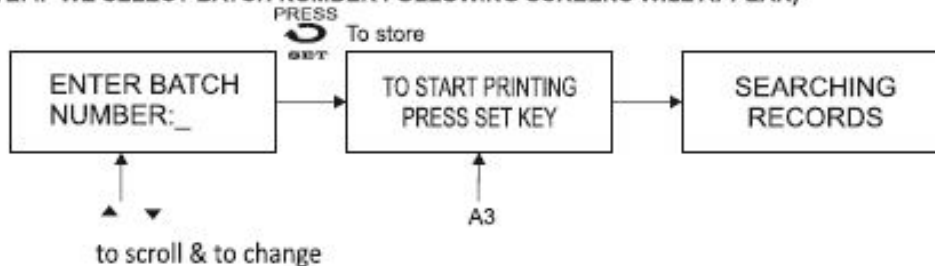
(NOTE: IF WE SELECT BETWEEN TIME, FOLLOWING SCREENS WILL APPEAR)

(NOTE: IF WE SELECT BATCH NUMBER FOLLOWING SCREENS WILL APPEAR)

(NOTE: IF WE SELECT ALL RECORDS, ONLY BATCH, ONLY LOG, ONLY ALARM, FOLLOWING SCREENS WILL APPEAR)

```
┌─────────────────────┐
│  TO START PRINTING  │
│   PRESS SET KEY     │
└─────────────────────┘
         │ PRESS
         │  ↻
         │ SET
         ▼
┌─────────────────────┐
│    SEARCHING        │
│    RECORDS          │
└─────────────────────┘
         │
         ▼
┌─────────────────────┐
│   PRINT DATA OF     │
│     dd:mm:yy ───────┼──────► DATE
└─────────────────────┘
```

(NOTE: IF WE SELECT BETWEEN TIME, FOLLOWING SCREENS WILL APPEAR)

```
┌─────────────────────┐
│  ENTER START TIME   │
│      HH:MM          │
└─────────────────────┘
         │ PRESS
         │  ↻
         │ SET
         ▼
┌─────────────────────┐                ▲  ▼
│  ENTER START TIME   │◄──────  to scroll & shift key to move cursor
│      HH:MM          │
└─────────────────────┘
         │ PRESS
         │  ↻  To store
         │ SET
         ▼
┌─────────────────────┐
│  ENTER STOP TIME    │
│      HH:MM          │
└─────────────────────┘
         │ PRESS
         │  ↻
         │ SET
         ▼
┌─────────────────────┐                ▲  ▼
│  ENTER STOP TIME    │◄──────  to scroll & shift key to move cursor
│      HH:MM          │
└─────────────────────┘
         │ PRESS
         │  ↻  To store after this it will go A3
         │ SET
         ▼
```

(NOTE: IF WE SELECT BATCH NUMBER FOLLOWING SCREENS WILL APPEAR)

```
                    PRESS
                     ↻  To store
                    SET
┌─────────────────┐      ┌─────────────────────┐      ┌─────────────────┐
│  ENTER BATCH    │─────►│  TO START PRINTING  │─────►│   SEARCHING     │
│  NUMBER:_       │      │   PRESS SET KEY     │      │   RECORDS       │
└─────────────────┘      └─────────────────────┘      └─────────────────┘
         ▲                          ▲
       ▲  ▼                        A3
  to scroll & to change
```

HOLD PRINT KEY FOR 3SECONDS YOU WILL COME ACROSS FOLLOWING OPTIONS

Parameter	Description	Range	Default Value
PRINTING OPTIONS	It will provide us facility to print our logged data based.	PRINT SUMMERY PRINT RECORDS	PRINT SUMMERY
PRINT SUMMERY	It will give you overall batch & log occurred on specified date along with their number.	-	-
PRINT RECORDS	It will print all records based on date selection.	SINGLE DATE DATE TO DATE	SINGLE DATE
FILTER PRINT BY	In this we can take prints of our records based on available options.	ALL RECORDS/ONLY BATCH /ONLY LOG/BETWEEN TIME BATCH NUMBER/ONLY ALARM	ALL RECORDS
ALL RECORDS	It will print all records i.e all the batches ,all records.	-	-
ONLY BATCH	It will print only batches for that specified date.	-	-
ONLY LOG	It will print only logged data for that specified date	-	-
BETWEEN TIME	Here we are going to give time range so that data will get printed within specified time range	-	-
ONLY ALARM	Here we will print only alarm occurances	-	-

Mfgd by: Innovative Instruments & Controls LLP

338, New Sonal Link Service Industrial Premises Co-op Society Ltd,
Building No.2,
Link Road,
Malad (W),
Mumbai – 400064.
Tel: 022-66939916/17/18;
E-mail : sales@itherm.co.in
Website : www.itherm.co.in

Documents / Resources

i-therm AI-logger 96x96 Data Logger [pdf] User Manual
V1.2, AI-logger 96x96 Data Logger, AI-logger 96x96, Data Logger, AI-logger, 96x96 Data Logger, Logger

References

- *i* **Home - Itherm**