

This quick start guide will help you to install MSR BLine Dashboard 2.0 Software, configure data loggers and retrieve recorded readings from it



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Introduction:-

MSR BudgetLine: Reusable PDF Data Loggers for Temperature and Relative Humidity



MSR63 temperature data logger (-30 to +70°C)

MSR64 temperature & humidity data logger (-30 to +70°C | 0 to 100% RH)



MSR83 temperature data logger (-30 to +70°C)

MSR84 temperature & humidity data logger (-30 to +70°C | 0 to 100% RH)

Low cost PDF data loggers for transport and storage

MSR BudgetLine data loggers reliably document the temperature and humidity of sensitive goods, such as pharmaceuticals, chemicals and food.

Features:-

- high accuracy & reading resolution
- two secured START & STOP buttons
- sleek, robust & tamper proof case
- easy plug n play operation
- Auto generated PDF report
- Integrated USB Plug
- 6-point-calibration certificate and software included
- Free MSR BLine Dashboard 2.0 Software

Requirements:-

To use MSR BudgetLine PDF USB data loggers & Software, you will require following items:

- MSR BLine Software
- One or more data loggers

You can download Software from:

<https://drive.google.com/file/d/1bRJpR4nCjWcmpjPuBLiPAiefnr9hAo1Q/view?usp=sharing>


Software Installation:-

Important Note: To install MSR BLine Software, you will need to have Windows Administrator Access right on the PC you are using

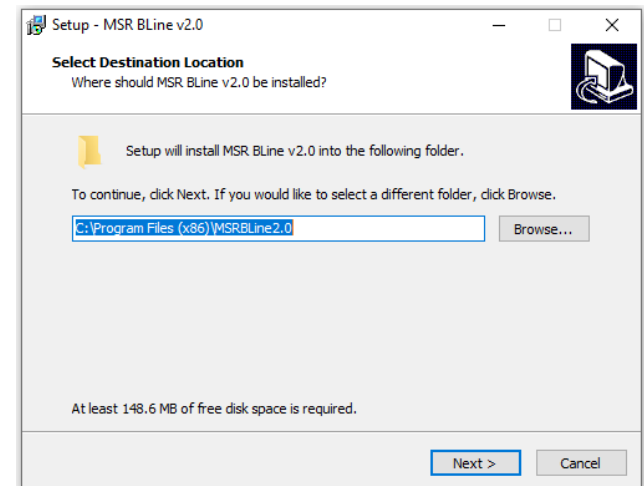
- Click on below link to download MSR BLine Software:

<https://drive.google.com/file/d/1bRJpR4nCjWcmpjPuBLiPAiefnr9hAo1Q/view?usp=sharing>

- Double-click on **MSRBLLine Setup.exe** to start window installer

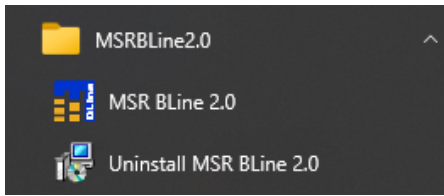
Name	Date modified	Type	Size
 MSRBLLine2.0 Setup	05-02-2021 14:13	Application	46,024 KB

- You will be asked to select destination location where you want to install the software (we recommend you use the default installation path). Once you have made your choices, click **Next**, then **Install**
- After successful completion of installation, click **Finish** and restart your computer

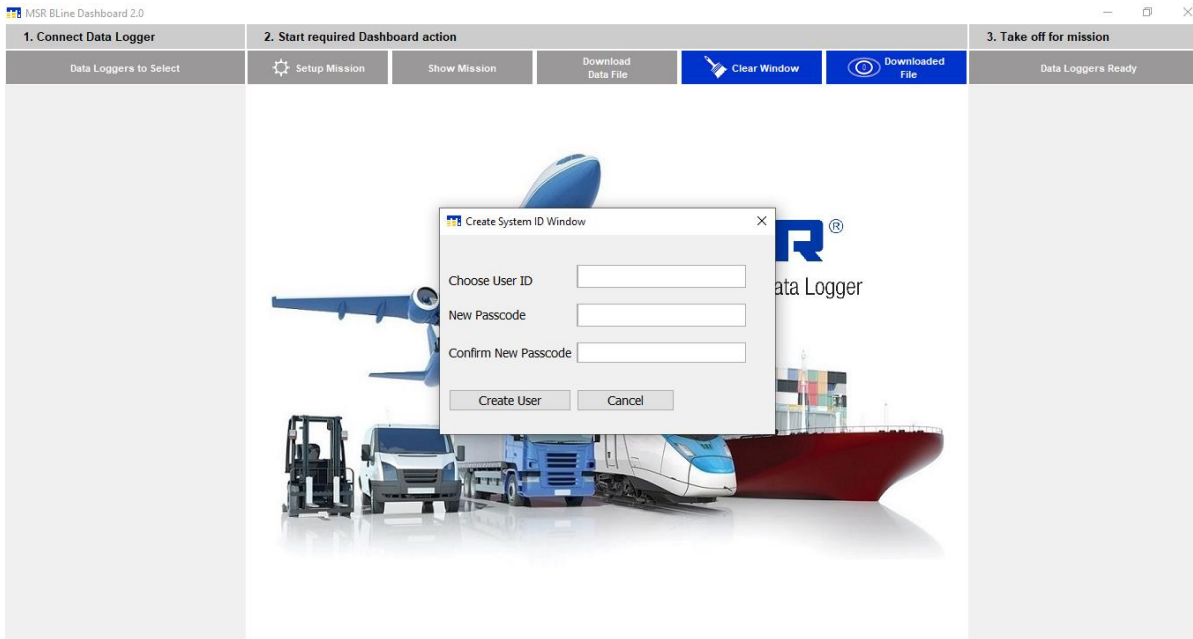


Starting MSR BLine Dashboard 2.0:-

You can start the software by going to START >> All Programs >> MSR BLine >> MSR BLine



The first time you run software you will be prompted to create User ID & Passcode



Connect Data Loggers:-

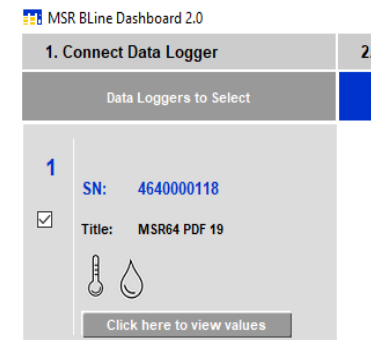
MSR BudgetLine PDF USB Loggers are available with integrated USB 2.0 A-Type plug. Hence, no additional hardware or cable is required to connect logger with PC

Note: Logger will be STOP automatically after 10 seconds when connected with PC. You can also STOP logger manually by pressing STOP button continuously for 5 seconds

Open MSR BLine Software, the serial number of connected data loggers will appear in the left column of MSR BLine Software



Click on square to select connected data loggers for 'Setup Mission' or 'Download Data File'



Setup Mission:-

Click on  to Configure data logger

MSR BLine Dashboard 2.0

1. Connect Data Logger

Data Loggers to Select

2. Start required Dashboard action

3. Take off for mission

Data Loggers Ready

Serial #: 4640000118

Logger Type: Temp/Humidity

Logger Capacity: 16000

Measurement Unit: °C

Title: MSR64 PDF 19
(Value should contain minimum of 5 characters)

Start Delay: 00 HR 02 MIN (Start Delay should be >= 00:01)

Logging Interval: 00 HR 01 MIN (Interval should be >= 00:01)

Time Zone: UTC+05:30 Time Zones Details

Total Logging Period: 11Day 02Hr 40Min 00Sec

Temp High Alarm: 30.0 °C (Value: -30 to 70)

Temp Low Alarm: 15.0 °C (Value: -30 to 70)

Humidity High Alarm: 95 %RH (Value: 0 to 100)

Humidity Low Alarm: 10 %RH (Value: 0 to 100)

Caution: Please adjust your system clock with real time clock for accurate results.

Configure Reset Close

Enter Title, Start Delay Time, Logging Interval, Time Zone, High & Low Alarm Limits and click on **Configure**

Configuration Request

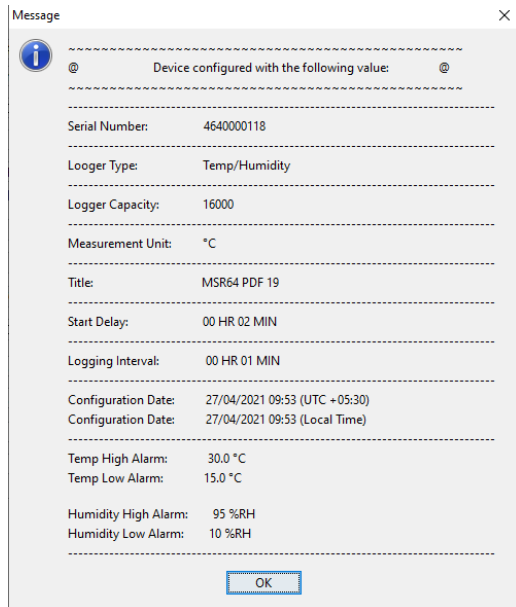
Current data from the device will be lost by configuring.
Do you want to continue?

Yes No

By configuring logger; last recorded readings saved in its internal memory will be erased automatically.
Click **Yes** to continue

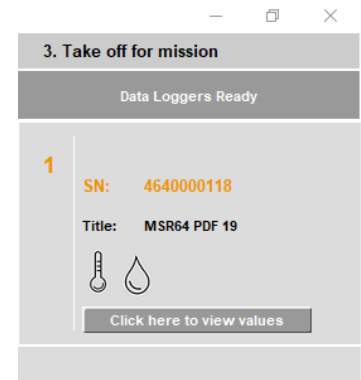
Setup Mission:-

Message ‘Device configured with following values’ will be shown



Verify set parameters and click OK

Configured data logger will appear on right column ‘Take off for mission – Data Loggers Ready’ till it is disconnected from the USB port of PC



On disconnecting logger, Green & Red LED will start flickering and at the end Green LED will be ON for a second indicating configuration of logger is completed successfully. .

To check configuration is completed successfully:-

Press ‘START’ button of logger for once; twice blink of Green LED indicate configuration is completed successfully

Logger with display will continuously indicate current reading only (START | STOP | RUN | OKAY will be Not Shown on Display)

Note:

FailSafe Logging will be automatically started after the configuration of logger. This help receiver to get recorded readings from logger even if sender forget to press START button while activating logger

START Logger :-



Check Status of Logger:

Press START button once and check LED indication

LED Indication	Logger Status
Green LED Flashes Twice	Waiting to START (Press to START button for 5 seconds to START)
Green LED Flashes Once	STARTED (in delay start mode)
Green LED Flashes Once	Logging – OK (No Alarm Condition)
Red LED Flashes Once	Logging – Alarm Condition
Red LED Flashes Twice	STOPPED

START Logger:

- Keep START button pressed continuously for 5 seconds to start logger
- Then Green LED and Red LED will start flickering, Green LED will be ON for 1 second confirming logger has been started successfully

Note: Do Not Use Logger if START is not shown on display and LED is not ON after pressing START button for 5 seconds

START Logger :-



2.0 A-Type
USB Connection

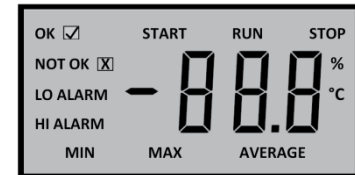
Tamperproof &
Robust Case

Green & Red
LED Indication

Check Status of Logger: During Recording [RUN] & Stop [STOP] mode, press START button once to view MIN | MAX | AVERAGE values

Display Indication:

Only Current Reading	Not Started
START	Waiting to START recording (in delay start mode)
RUN	Started Recording
STOP	Recording is Stop
OK	No Alarm Condition
NOT OK	LO HI Alarm Condition



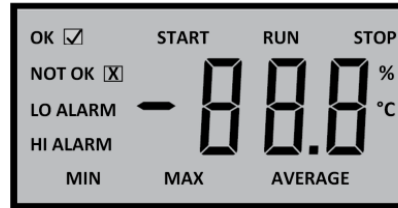
Multi-Function LCD Display

Start Logger:-

- Initially current reading will be shown on display before starting logger
- Keep START button pressed continuously for 5 seconds to start logger
- Then Green LED and Red LED will start flickering, Green LED will be ON for 1 second confirming logger has been started successfully
- Display will indicate START till delay start time is over
- After completion of delay start time, display will indicate RUN & current reading confirming logger has been started successfully

Note: Do Not Use Logger if START is not shown on display and LED is not ON after pressing START button for 5 seconds

Multi-Function LCD Display



Logger Status



Waiting to START
Press START button continuously for 5 seconds to start logger



Logger is STARTED
Logger is waiting till delay start time is completed



Logger is in Recording Mode

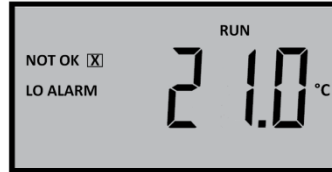


Logger is in STOP Mode
Press STOP button continuously for 5 seconds to stop logger

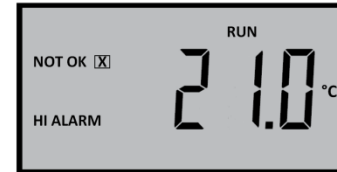
Alarm Status



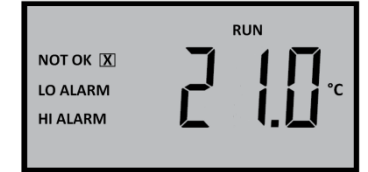
OK - No Alarm Condition



Low Alarm Condition

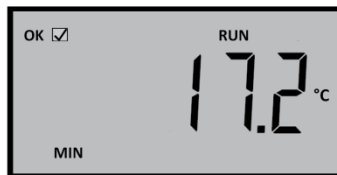


High Alarm Condition



Low & High Alarm Condition

Min/Max/Avg Values
During Recording or Stop Mode, Press START button Once to view all values



Minimum



Maximum



Average

STOP Logger:-

To stop recording, press 'STOP' button continuously for 5 seconds till Red LED is ON

Note: Logger will be automatically STOP after 10 seconds when connected with the USB port of PC

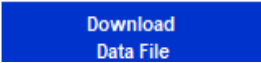
PDF Generation:-

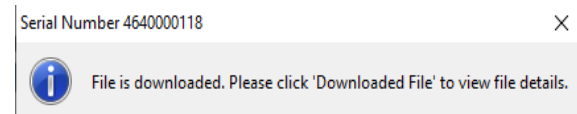
After stopping, when the logger is connected for first time to USB port of the computer, both LEDs (GREEN & RED) will start flashing to show the PDF generation is in process **Do Not Disconnect Logger until both LEDs (GREEN & RED) are ON continuously, which indicates PDF is ready**

Then folder containing PDF will open automatically. Double click to open Copy and Save As PDF file to desired location. Once the PDF is generated, whenever the logger is connected to USB port of the computer, both LEDs (GREEN & RED) are ON continuously, which indicates logger is in stop mode and PDF is already generated

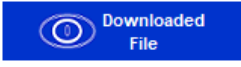
Download Data File:-

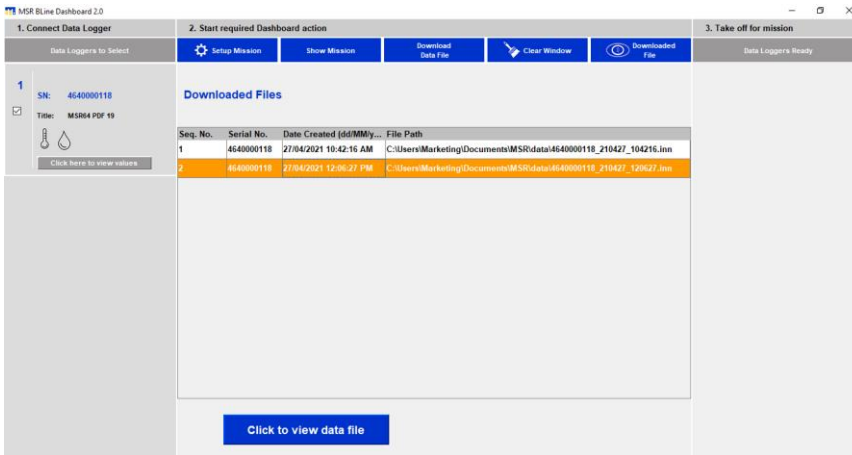
Connect logger with the USB port of PC and open MSR BLine Software. The serial number of connected data loggers will appear in the left column of MSR BLine Software. Click on square to select connected data loggers for 'Download Data File'

Click on  to download recorded readings from data logger. On successfully completion of download process, data file will be automatically saved in Documents > MSR > data and a message file is downloaded. Please, click 'Downloaded File' to view file details.



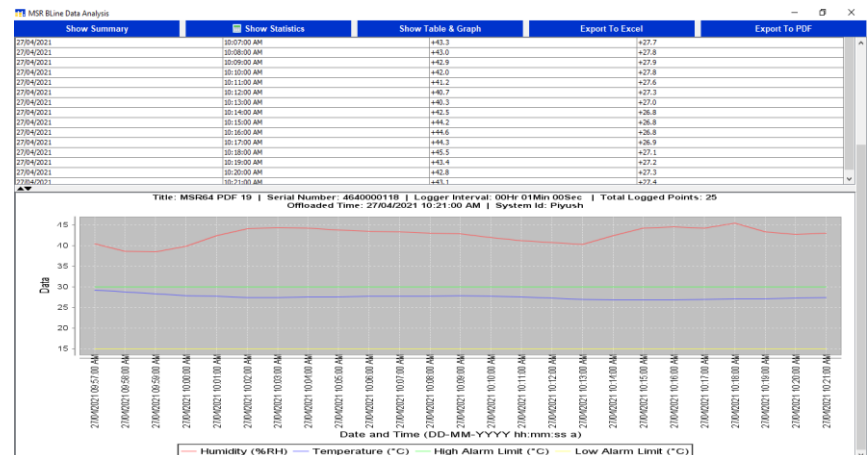
View & Open Data Files Downloaded from Logger:-

Click on  to view all downloaded data files from loggers




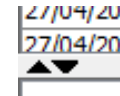
Select downloaded data file from list & 'Click to view data file'

'MSR BLine Data Analysis' window will be open. Data is initially presented as a graph + table readings but can also be displayed as individual graph or table of readings if required. These views are supplemented with summary view and statistical view

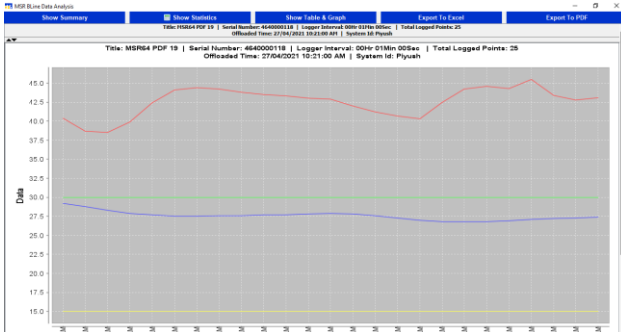


MSR BLine Data Analysis :-

click upper or lower arrow  to view graphical view & tabular view



Graphical View



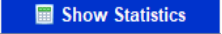
Tabular View

Date (DD/MM/YYYY)	Time	Humidity (%RH)	Temperature (°C)
27/04/2021	09:57:00 AM	+40.4	+29.2
27/04/2021	09:58:00 AM	+38.7	+28.8
27/04/2021	09:59:00 AM	+38.5	+28.3
27/04/2021	10:00:00 AM	+39.9	+27.9
27/04/2021	10:01:00 AM	+42.4	+27.7
27/04/2021	10:02:00 AM	+44.1	+27.5
27/04/2021	10:03:00 AM	+44.4	+27.5
27/04/2021	10:04:00 AM	+44.2	+27.6
27/04/2021	10:05:00 AM	+43.8	+27.6
27/04/2021	10:06:00 AM	+43.8	+27.7
27/04/2021	10:07:00 AM	+43.3	+27.7
27/04/2021	10:08:00 AM	+43.0	+27.8
27/04/2021	10:09:00 AM	+42.8	+27.8
27/04/2021	10:10:00 AM	+42.0	+27.8
27/04/2021	10:11:00 AM	+41.2	+27.6
27/04/2021	10:12:00 AM	+40.7	+27.3
27/04/2021	10:13:00 AM	+40.3	+27.0
27/04/2021	10:14:00 AM	+42.5	+26.8
27/04/2021	10:15:00 AM	+44.2	+26.8
27/04/2021	10:16:00 AM	+44.6	+26.8
27/04/2021	10:17:00 AM	+44.3	+26.9
27/04/2021	10:18:00 AM	+44.5	+27.1
27/04/2021	10:19:00 AM	+43.4	+27.2
27/04/2021	10:20:00 AM	+42.8	+27.3
27/04/2021	10:21:00 AM	+43.1	+27.4

For Summary view, Click on



For Statistical view, Click on



Summary Report

Note: Date & Time format (DD/MM/YYYY hh:mm:ss a)

Device Information (Factory Settings)

Device: TH.Logger
 Serial Number: 4640000118
 ID: MSR64 PDF 19
 Memory Capacity: 16000

Device Setup Information

Logger Interval: 00h:01Min:00Sec
 High Alarm Limit (°C): 30.0
 Low Alarm Limit (°C): 15.0

Recorded Data Information

Factory Configuration Date: 15/12/2020
 Total Logged Points: 25
 Total Selected Points: 25
 Start After: 00h:02Min:00Sec
 Stop After: When Full
 Logger Configuration Date: 27/04/2021 09:53:00 AM
 Offloaded Time: 27/04/2021 10:21:00 AM

Statistical Data Selection

Statistical data of full cycle
 Statistical data of partial cycle

Date From:
 Date To:

Activation Energy H for MKT: 83.14472 kJ/mol
 (Value should be >= 60 and <= 100)

Humidity lower limit:
 Humidity upper limit:
 Temperature lower limit:
 Temperature upper limit:

Show Statistical Data Cancel

select time cycle and enter upper and lower limits for calculation and click **Show Statistical Data**

Statistics Report

Note: Date & Time format (DD/MM/YYYY hh:mm:ss a)

Title: MSR64 PDF 19 | Serial Number: 4640000118 | Logger Interval: 00h:01Min:00Sec | Total Logged Points: 25
 Offloaded Time: 27/04/2021 10:21:00 AM | System Id: Piyush

Statistical Data From: 27/04/2021 09:57:00 AM To: 27/04/2021 10:21:00 AM
 Total Statistical Points: 25 | Total Time: 00h: 29Min 00Sec

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Humidity (%RH)

=====

Maximum Humidity: +45.5
 Minimum Humidity: +38.5
 Average Humidity: 42.5
 Standard Deviation of Humidity: 1.8
 Number of points for Humidity below lower limit 10 : 0 (Time: 00h: 00Min 00Sec)
 Number of points for Humidity above upper limit 90 : 0 (Time: 00h: 00Min 00Sec)
 Number of points for Humidity between 10 and 90 : 25 (Time: 00h: 29Min 00Sec)

=====

Temperature (°C)

=====

Maximum Temperature: +29.2
 Minimum Temperature: +26.8
 Average Temperature: 27.6
 Standard Deviation of Temperature: 0.6
 Mean Kinetic Temperature: 27.6
 Number of points for Temperature below lower limit 15 : 0 (Time: 00h: 00Min 00Sec)
 Number of points for Temperature above upper limit 30 : 0 (Time: 00h: 00Min 00Sec)
 Number of points for Temperature between 15 and 30 : 25 (Time: 00h: 29Min 00Sec)

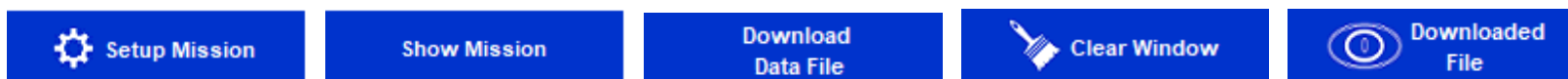
Menu Overview:-

MSR BLine Dashboard 2.0

1. Connect Data Logger:-

View & connected data loggers on the USB port of PC. Select data logger to Setup Mission or Download Data File

2. Start required Dashboard action:-

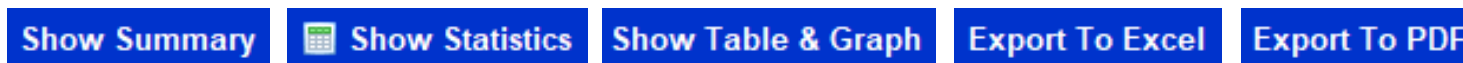


Setup Mission:	To set parameters and configure logger
Show Mission:	To view pre-programmed parameters of logger
Download Data File:	Download recorded data from logger
Clear Window:	Close active window
Downloaded File:	To view & open all available downloaded data files

3. Take off for mission:-

View list of configured data loggers after completion of 'Setup Mission'

MSR BLine Data Analysis



Show Summary:	To view summary report of data (Minimum / Maximum / Average / Mean Kinetic Temperature)
Show Statistics:	To set upper / lower limits and view statistical data
Show Table & Graph:	To view data in tabular + graphical format
Export To Excel:	Export data to Excel Sheet
Export To PDF:	Export data to PDF with time period selection

Contact Us:-

Please, do not hesitate to communicate should you require any further information / assistance, we are placed entirely at your disposal for our services.



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