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

Content:-

Introduction:-

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

MSR63 temperature data logger (-30 to +70⁰C)

MSR64 temperature & humidity data logger (-30 to +70⁰C | 0 to 100% RH)

MSR83 temperature data logger (-30 to +70⁰C)

MSR84 temperature & humidity data logger (-30 to +70⁰C | 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 Dasboard 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
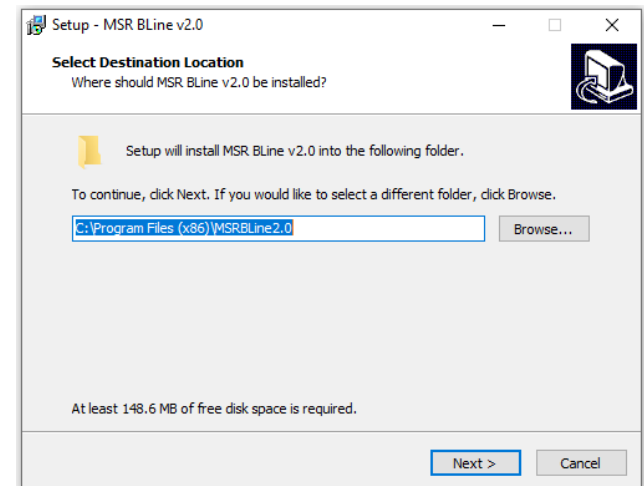
• Click on below link to download MSR BLine Software:
https://drive.google.com/file/d/1bRJpR4nCjWcmpjPuBLiPAiefnr9hAo1Q/view?usp=sharing

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

Name	Date modified	Type	Size
MSRBLine2.0 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

Setup - MSR BLine v2.0

Select Destination Location
Where should MSR BLine v2.0 be installed?

Setup will install MSR BLine v2.0 into the following folder.

To continue, click Next. If you would like to select a different folder, click Browse.

C:\Program Files (x86)\MSRBLine2.0   Browse...

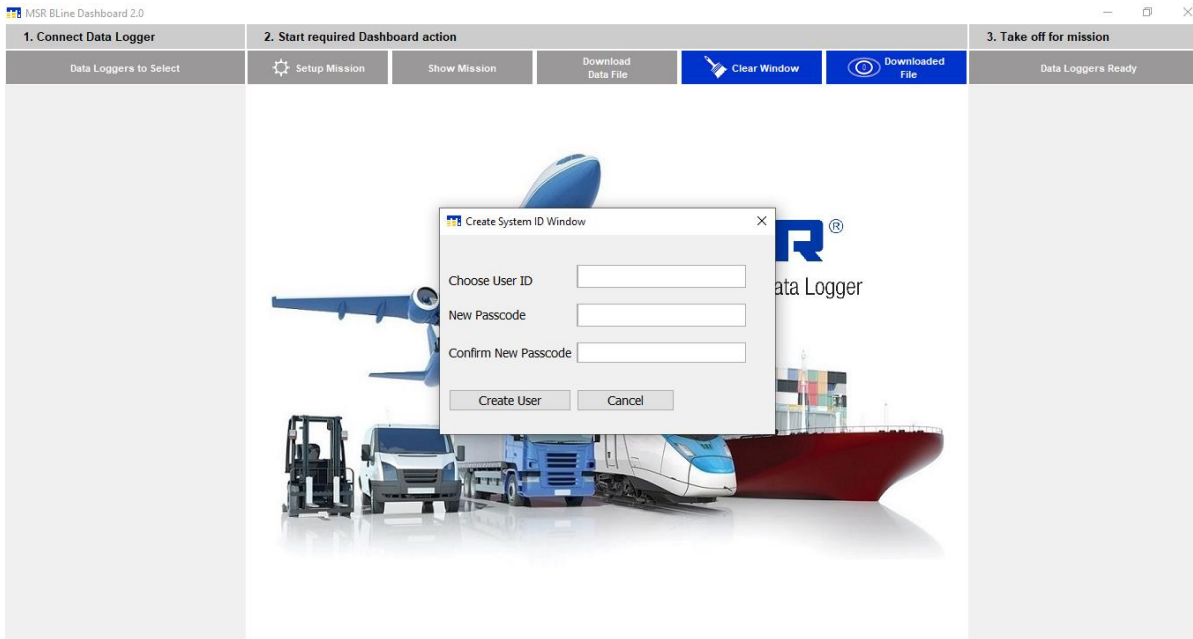At least 148.6 MB of free disk space is required.

Next >   Cancel

Starting MSR BLine Dashboard 2.0:-

You can start the software by going to START >> All Programs >> MSR BLine >> MSR BLine
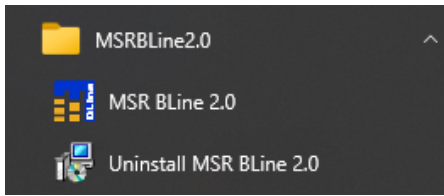
The first time you run software you will be prompted to create User ID & Passcode
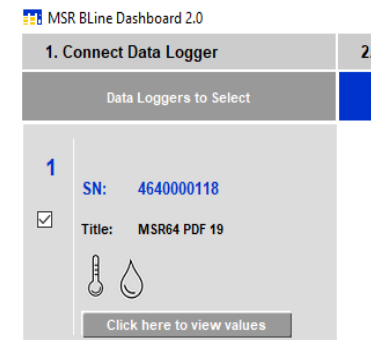
Connect Data Loggers:-

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 [Setup Mission] to Configure data logger

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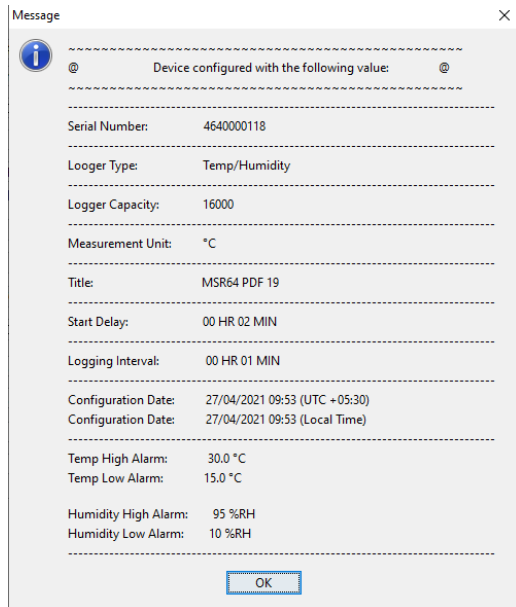

By configuring logger; last recorded readings saved in its internal memory will be erased automatically.
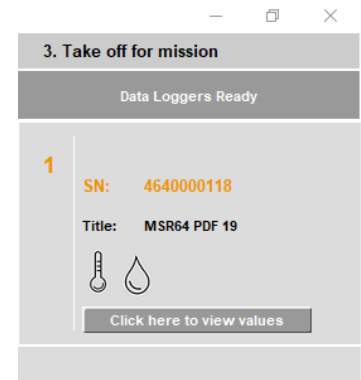Click **Yes** to continue

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 :-

Green & Red LED Indication

2.0 A-Type USB Connection

Tamperproof & Robust Case

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
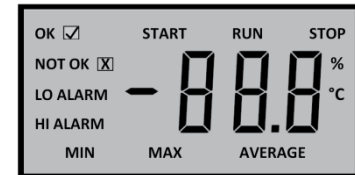
START Logger :-

**Green & Red
LED Indication**

**2.0 A-Type
USB Connection**

**Tamperproof &
Robust Case**

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

OK ☑	START	RUN	STOP
NOT OK ☒			%
LO ALARM	— **88.8**		°C
HI ALARM			
MIN	MAX	AVERAGE	

Logger Status

23.0 °C
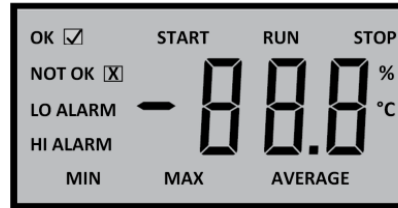
Waiting to START
Press START button continuously
for 5 seconds to start logger

START

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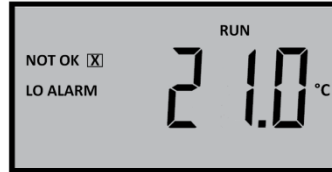delay start time is completed

OK ☑   RUN
23.0 °C

Logger is in Recording Mode

OK ☑   STOP

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

Alarm Status

OK ☑   RUN
23.0 °C

OK – No Alarm Condition

NOT OK ☒   RUN
LO ALARM **21.0** °C

Low Alarm Condition

NOT OK ☒   RUN
HI ALARM **21.0** °C

High Alarm Condition

NOT OK ☒   RUN
LO ALARM
HI ALARM **21.0** °C
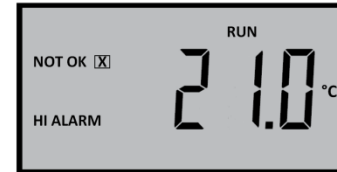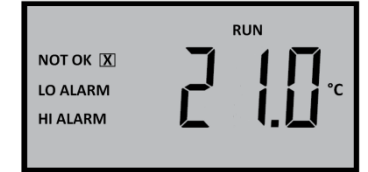
Low & High Alarm Condition

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

OK ☑   RUN
17.2 °C
MIN

Minimum

OK ☑   RUN
21.9 °C
MAX

Maximum

OK ☑   RUN
23.0 °C
AVERAGE
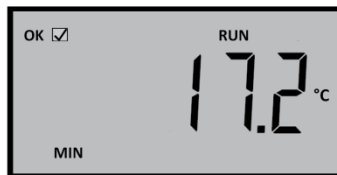
Average

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
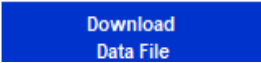
PDF Generation:-

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
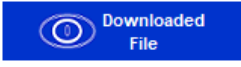
Download Data File:-

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 filed will be automatically saved in Documents > MSR > data and a message File is downloaded. Please, click 'Downloaded File' to view file details.
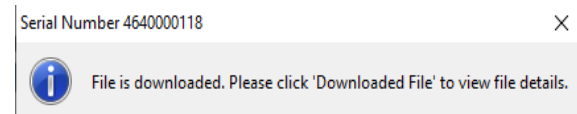
View & Open Data Files Downloaded from Logger:-

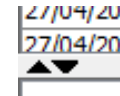Click on [Downloaded File] to view all downloaded data files from loggers
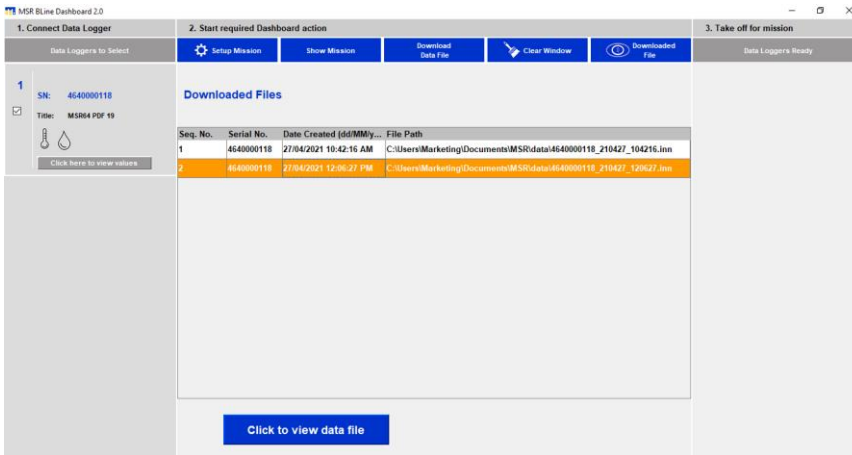
Select downloaded data file from list
& 'Click to view data file'

'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
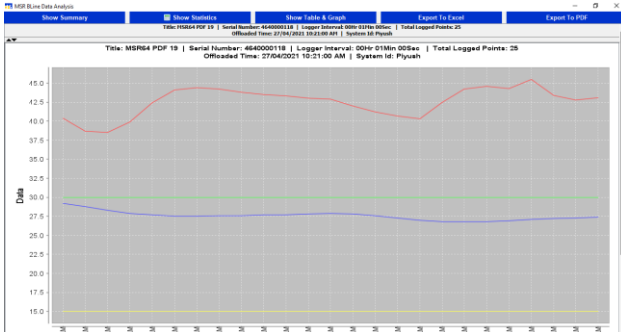required. These views are supplemented with
summary view and statistical view
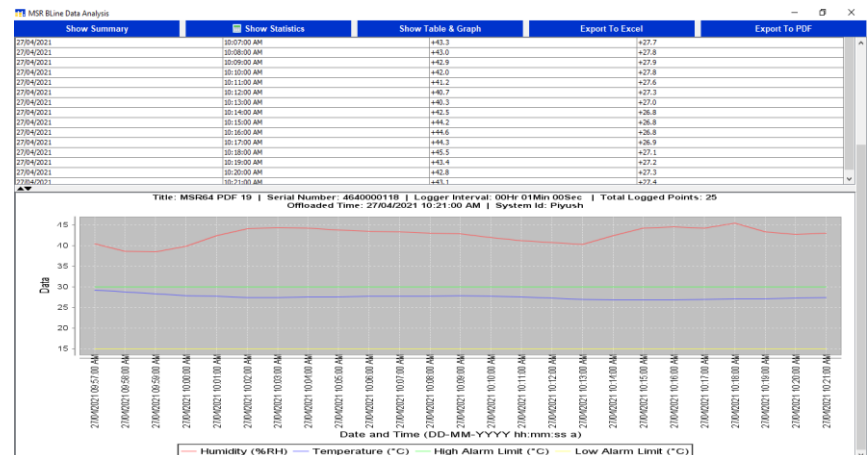
MSR BLine Data Analysis :-

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

Graphical View

Tabular View

For Summary view, Click on **Show Summary**

For Statistical view, Click on **Show Statistics**

select time cycle and enter upper and lower limits for calculation and click **Show Statistical Data**
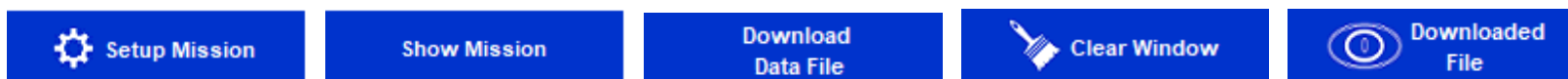
Menu Overview:-

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	Show Mission	Download Data File	Clear Window	Downloaded File

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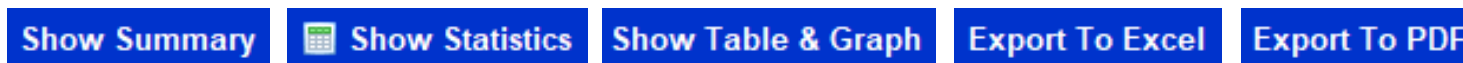
Show Summary:	To view summary report of data (Minimum / Maximum / Average / Mean Kinetic Temperature
Show Statistics:	To set upper / lower limits and view statistical data
Show Table & Graph:	To view data in tabular + graphical format
Export To Excel:	Export data to Excel Sheet
Export To PDF:	Export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

MSR Electronics GmbH
Mettlenstrasse 6
8472 Seuzach
Switzerland
T: +41 52 316 25 55 | E: sales@msr.ch |W: www.msr.ch