OPERATION AND USER MANUAL

IntelliBlast Lite

MANUAL CONTENTS

⚠ WARNING ⚠

Do not attempt to operate this equipment without first reading and understanding the manual enclosed with this device. Suitability for use of this device lies solely with user.

Fill in your model and serial number in the blank spaces below. These can be used for reference whenever service or maintenance is required.

Unit Serial Number _____

Date Of Issue _____

INTRODUCTION

Congratulations on the purchase of your new BlastOne product! This product was carefully designed and manufactured to give you many years of dependable service. Only minor maintenance is required to keep it in top working condition. Be sure to observe all maintenance procedures and safety precautions in this manual and on any safety decals located on the product and on any equipment on which the attachment is mounted.

This manual has been designed to help you do a better, safer job. Read this manual carefully and become familiar with its contents.

BEFORE OPERATION

The primary responsibility for safety with this equipment falls to the operator. Make sure the equipment is operated only by trained individuals that have read and understand this manual. If there is any portion of this manual or function you do not understand, contact BlastOne International to obtain further assistance. Keep this manual available for reference..

⚠ NOTE ⚠
This equipment is only designed to be used with air blast surface preparation equipment

SERVICE

Use only BlastOne replacement parts. Warranty and Safety compliance is obviated if non-conforming parts are used. Substitute parts may not meet the required standards.

DESCRIPTION

The IntelliBlast Lite is designed to be used on an abrasive blasting system as a device that monitors pressure relative to time and transmits this data to cloud-based solution. This data can be viewed via a dashboard on the BlastOne portal.

To function optimally, the system requires a constant 12VDC supply but does have backup batteries to prevent data loss during short intervals (2 days) of power loss.

FEATURES

- Total active time.
- Pot angle.
- Pot GPS location.
- Pusher line pressure.
- Nozzle Pressure
- Number of activations.
- Active time per shift / day.
- Time remaining to service.
- Pressure warning when operating below recommended pressure.
- Fatigue warning.
- Pot service date notification.
- Pot certification renewal date notification.
- Suitable for all types of blast pots - pressure release or pressure hold systems.
- Easy Installation.

POWER SUPPLIES

The NEO has a few options for operational power depending on requirements.

1. **Internal rechargeable power**
    This is an internal Lithium-Ion battery that is used to maintain parameters but will not power the system for operational acquisition and transmission of data

2. **Four AA batteries**
    Internal batteries can be placed within the NEO for operation without an external power supply but this source of power does not allow long term higher data rates. Operational times of up to 5 years can be achieved for a system that would acquire and transmit data twice a day but will not give more than 24 hours if data is acquired at a 5 second interval.

3. **External 12VDC**
    External 12VDC power can be supplied to the Orb from a battery, solar panel, or 240VAC to 12VDC plugpack.
    Addition of external 12VDC power will NOT charge the 4xAA batteries but will recharge the internal Lithium-Ion battery.

4G LTE Transmission

Battery	Base interval	Transmit interval	Sensors enabled	Battery life
AA 1.6V Lithium	1 per day	1 per day	All internal sensors except GPS	7.1 years
AA 1.6V Lithium	1 per hour	1 per day	All internal sensors except GPS	6.5 years
AA 1.6V Lithium	1 per hour	1 per hour	All internal sensors except GPS	0.9 years
AA 1.6V Lithium	1 per day	1 per day	All internal sensors and GPS	6.3 years
AA 1.6V Lithium	1 per hour	1 per day	All internal sensors and GPS	1.9 years
AA 1.6V Lithium	1 per hour	1 per hour	All internal sensors and GPS	0.6 years

Figure 1. Battery Life depending on operational mode

ACQUISITION

The NEO devices allow the user to be flexible in the data acquisition and data transmitting rates. The systems can be configured to acquire data at 1second intervals and transmit the data at 6 hour intervals, through to 5 acquisition times of hours or days. Acquisition of the GPS data signal can also be changed from rarely to often depending on requirements.

The system operates by sleeping until the acquisition interval has passed and then the device will awake and take data depending on its configuration.

Higher data rates consume more power so if the system is operating on 4AA batteries then.

ACCOUNT SETUP

To be able to view the data from the IntelliBlast Lite unit on the BlastOne Portal a Login ID and Password are required. These are a created by going to https://intelliblast.com.au/ and signing up as depicted below.
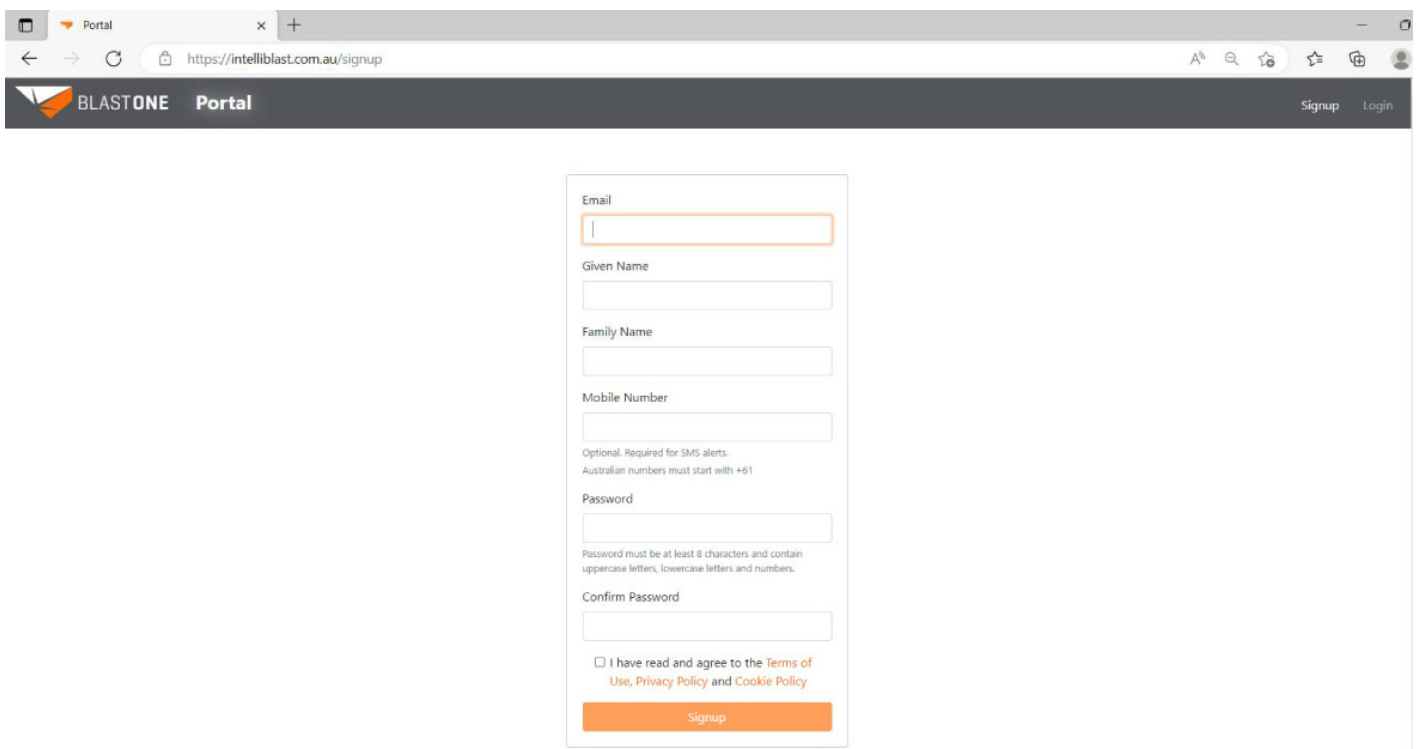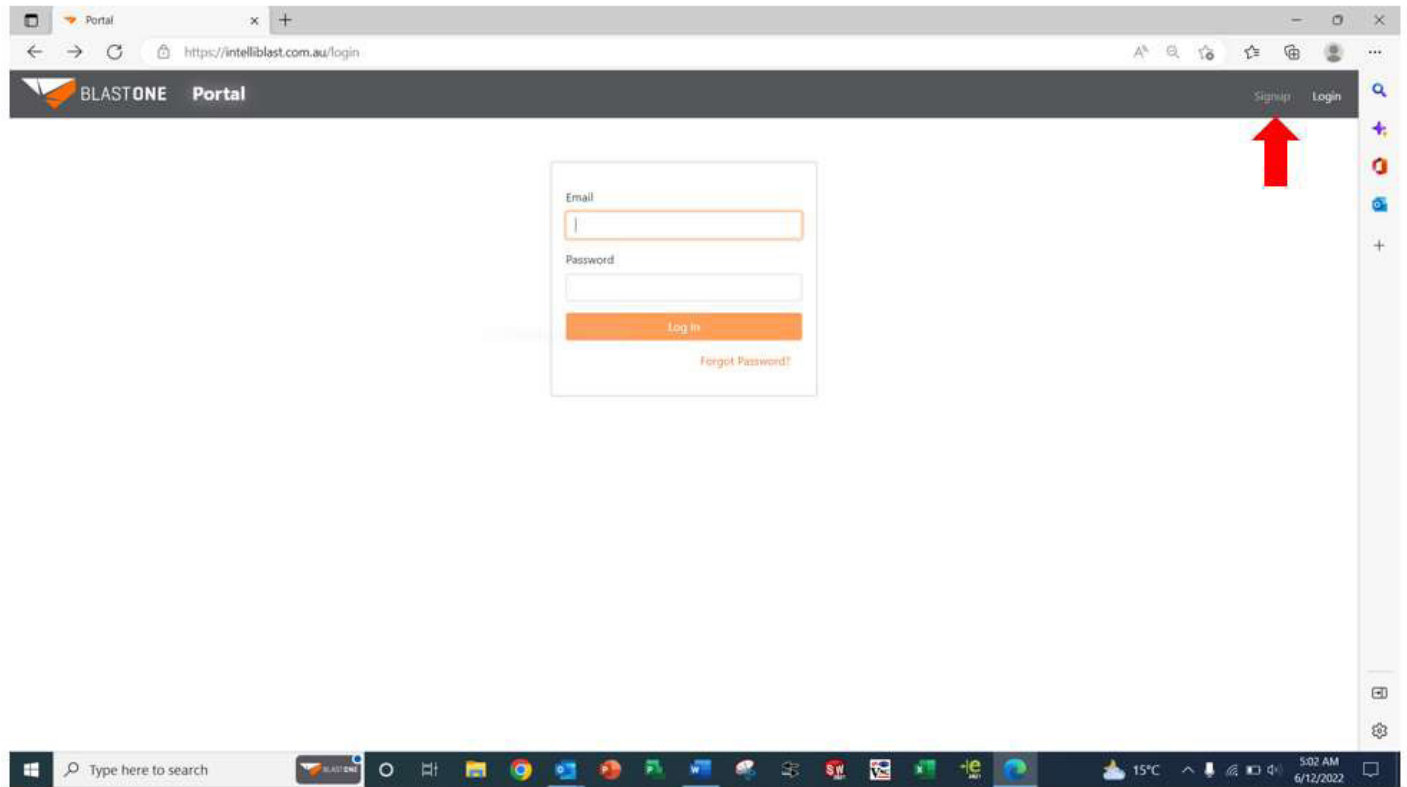
On completion of the sign up you will receive a verification email (Note: be sure to complete this on a desktop computer and to check your spam and junk folders, the verification email may take up to 30mins to arrive.)

Contact BlastOne once verified at Craig.smith@blastone.com with your email and unit ID, found on the inside of the lid of the device (see Figure 2 below).

Figure 2. Device details found inside lid and unit (i.e. X1X2X3X4X)

DEVICE MANAGEMENT

Once logged in for the first time, you will see the screen below (Figure 3) until you have access to a device provided to you.

Figure 3. Initial access screen

Once your device has been setup you will need to reload the page to see the device screen (Figure 4). This device management screen will show all the devices that are presently assigned to your account and that you presently have access to.
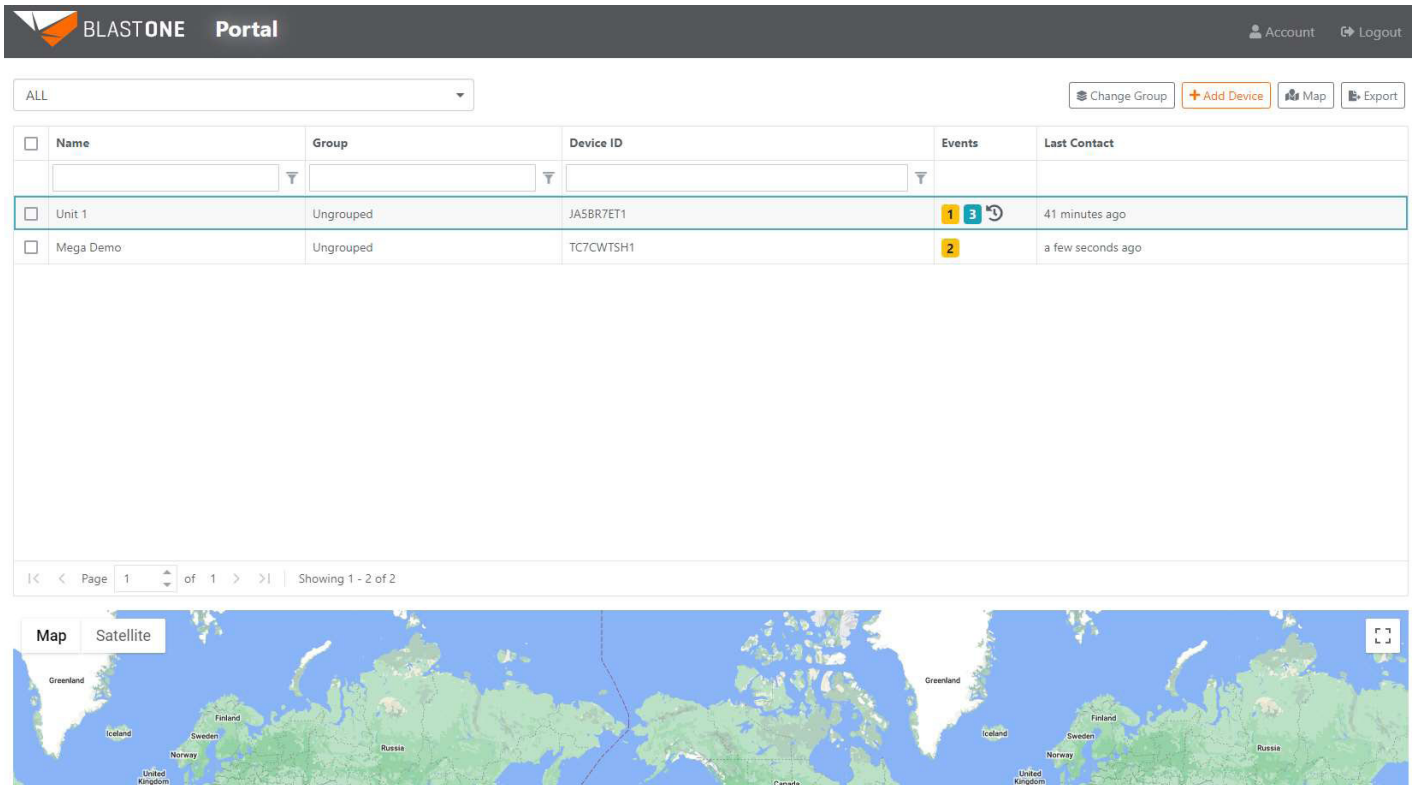

Figure 4. *Device management screen*

On the device management screen, you will have access to the following options:

- Account (Figure 6)
- Logout
- Change group (Figure 8)
- Add device (Figure 9)
- Map (Figure 10)
- And export (Figure 11)
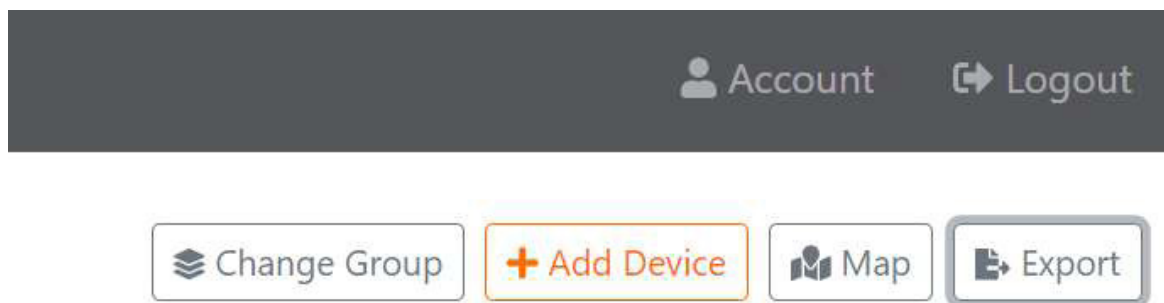
Figure 5. *Device management options*

Pressing the "Account" button will open the below page wherein you can manage your account information.

Figure 6. Account management page

Different devices can be grouped to assist with sorting through devices. This can be done by pressing the cheque box next to the device, as seen in Figure 7 below, then pressing the "Create Group" button.
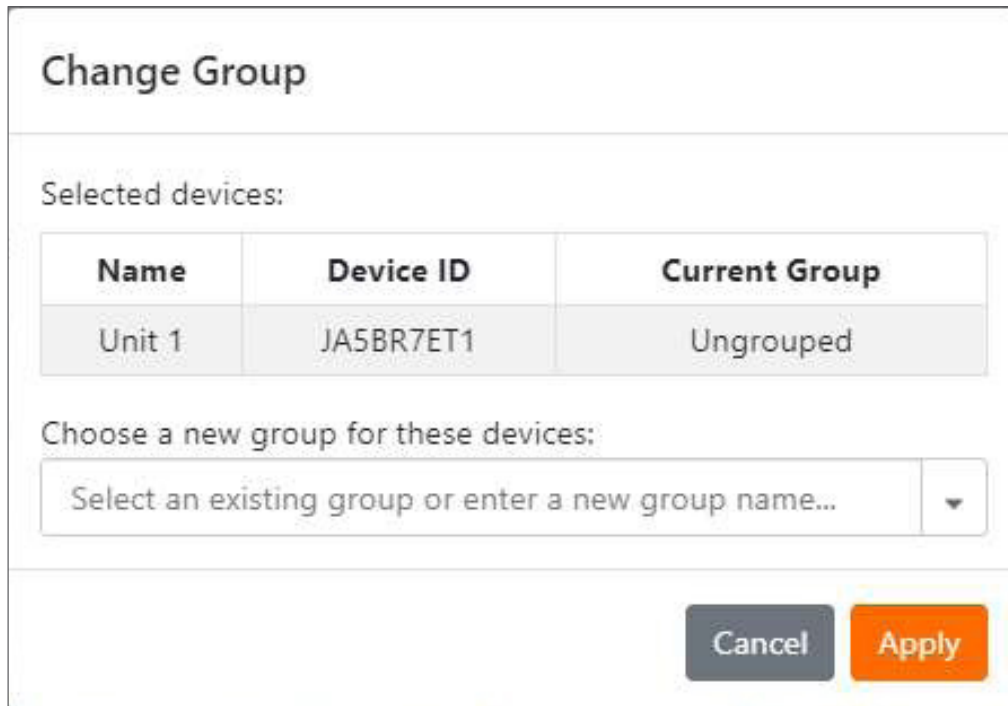
Figure 7. Device grouping process: cheque boxes then press change group

Pressing the "Change group" button with the desired devices selected will cause the below popup to appear wherein you can assign and change groupings for devices. (Note: remember to press apply to save changes)
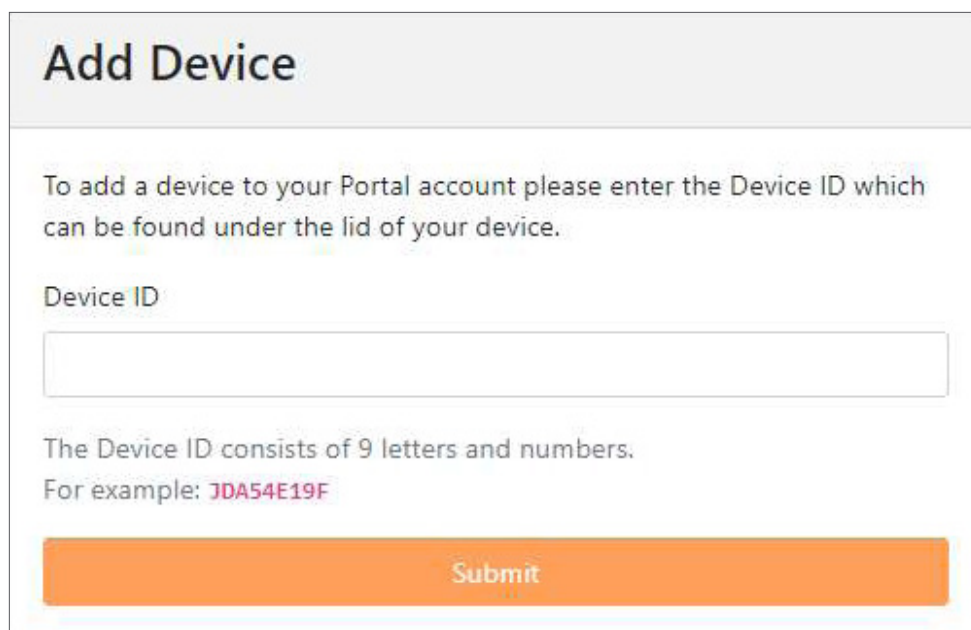
Figure 8. Device grouping popup

Pressing the "Add Device" button will open the screen in Figure 9. This screen can be used to add a device to your dashboard that you have been assigned to by BlastOne personnel but hasn't automatically appeared yet.

Figure 9. Add device screen

Pressing the "Map" button will scroll your browser and scale the screen to the world map at the bottom of the dashboard wherein all your assigned devices last know locations will be overlayed.
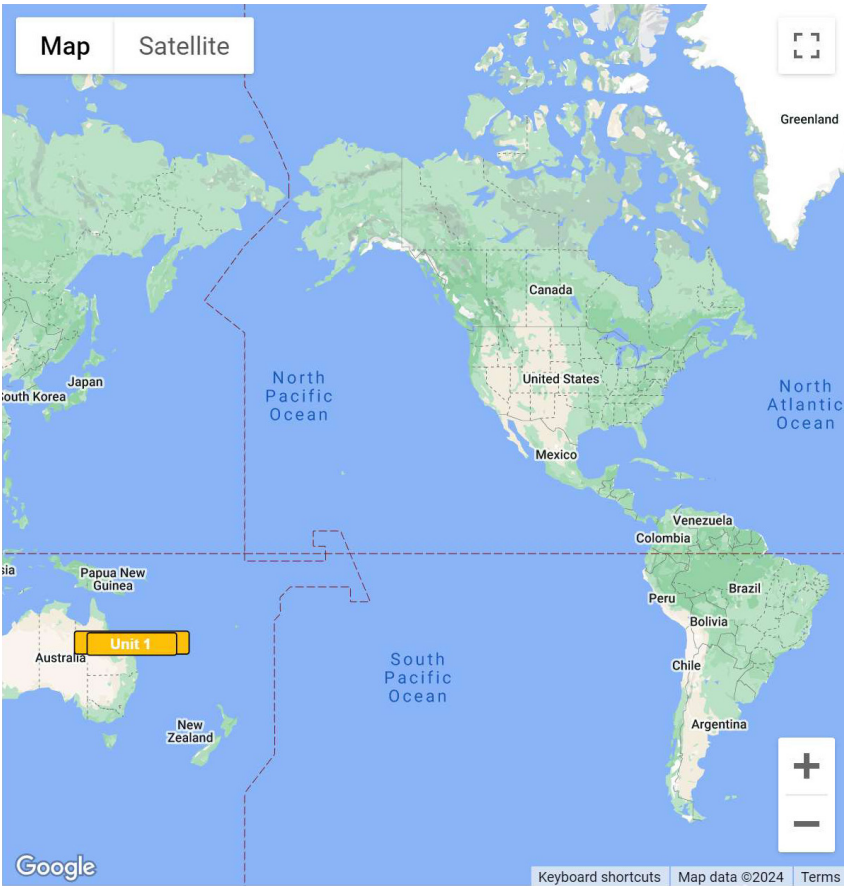
Figure 10. World map with devices overlayed

Pressing the "Export" button will download a excel file summarizing the selected devices with the below fields.
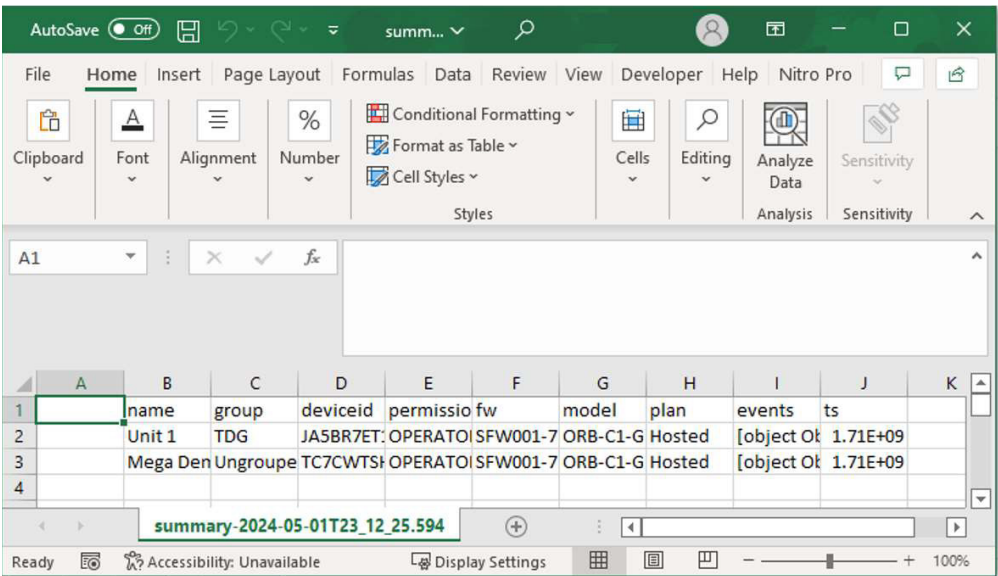
Figure 11. Excel file summary of selected devices

Specific devices can also be searched for using the search fields below: Name, Group, and Device ID. The funnel icon can also be pressed to sort for specific device identifiers.

Figure 12. Sorting functions for searching for specific devices or groups

If you have more devices than can be viewed on a single page, you can navigate between pages of different devices using the navigation arrows circled in Figure 13 below:

Figure 13. Device page navigation

DEVICE ACCESS AND DATA ANALYSIS

To access a specific device, simply click on the banner for the device that you want to access/view (see Figure 14 below)

Figure 14. Dashboard with devices listed for device viewing

Selecting the device will open a display like the one seen in Figure 15 below which can show widgets such as: Total active time; Pot location, Nozzle Pressure, Number of activations, Active time per shift/day, etc.

Unit 1
Last Contact: an hour ago

Latest Data: 02-May-24 09:06:53

Events

- 🛈 **Battery Voltage:** Low
- 🛈 **Supply Voltage:** Low
- 🛈 **System:** Hibernate Mode
- ⚠ **Pot Cert Warning:** Pot certification due
- ⚠ **No Recent Contact**

02-May-24 09:06:53

Supply Pressure

0

0   150

02-May-24 09:06:53   [cp25]

Nozzle Pressure

0.0

02-May-24 09:06:53   [cp7]

Position

Map   Satellite

02-May-24 09:06:53

Ambient Temp C

21

-20   80

02-May-24 09:06:53   [cp4]

Hose Activations Day

0.0

02-May-24 09:06:53   [cp9]

Hose Activations Wk

69.0

02-May-24 09:06:53   [cp10]

Hose Activations All

18859.0

02-May-24 09:06:53   [cp11]

Active Hrs Day

0.0 Hours

02-May-24 09:06:53   [cp1]

Active Hrs Wk

5.7 Hours

02-May-24 09:06:53   [cp2]

Active Hrs All

1573.5 Hours

02-May-24 09:06:53   [cp3]

Supply Voltage

0.0 Volts

02-May-24 09:06:53   [vin]

🔲 Raw Data

Figure 15. Unit details display page

The displays will all show the single value measurements by default. The data range can however be converted into a line graph by pressing the little bar graph icon in the top right of each measurement, circled in Figure 16 below.
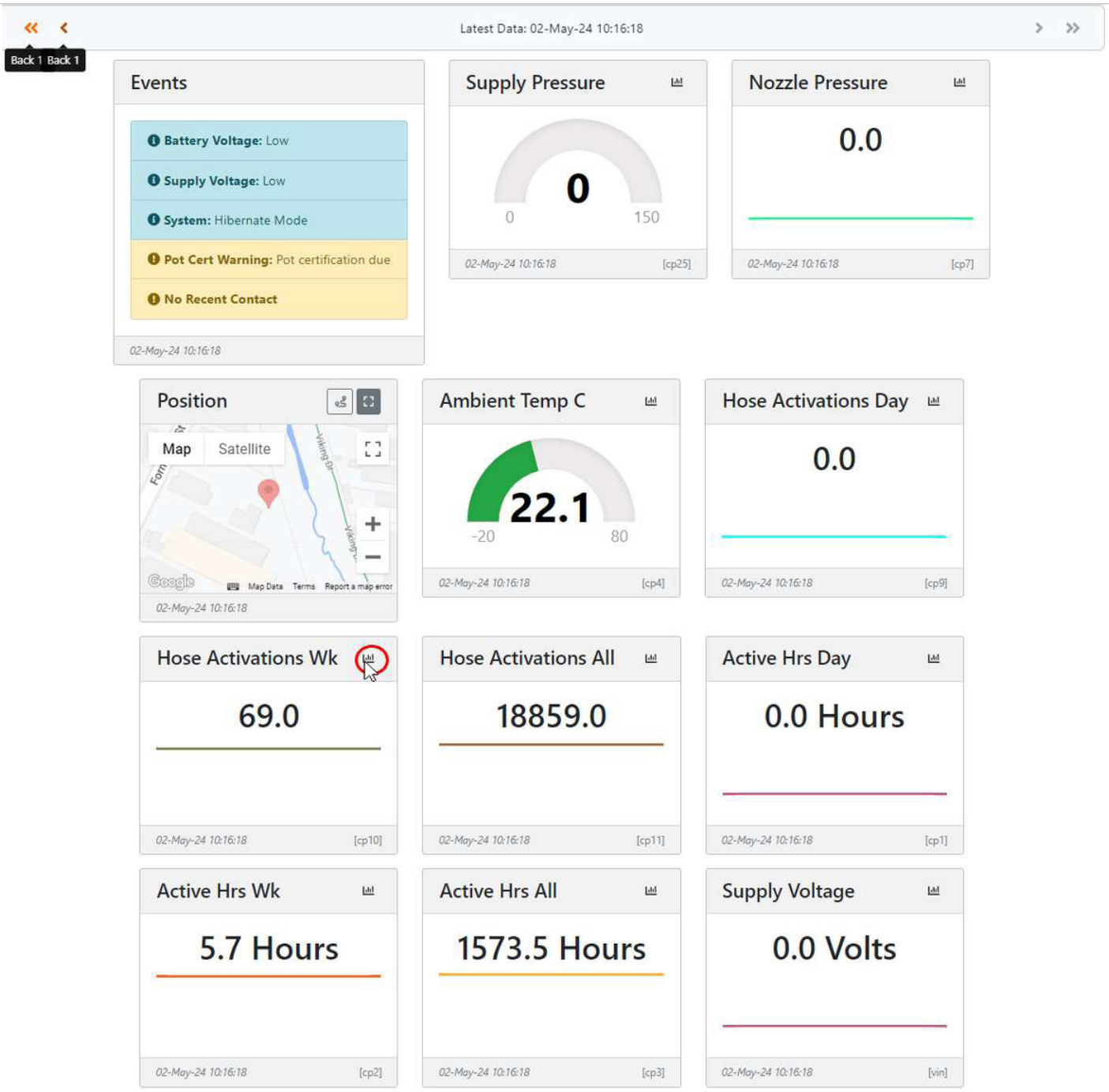
Figure 16. Selection of graph icon for finding trend data

Pressing this bar graph icon will open the below popup which allows the user to select their desired time range from Month, Week, Day, or Hour.

Figure 17. Date range selection for generated trend graph

After selecting a time range and some loading, the plot will be converted into a line graph like the one seen in Figure 18 below (Note: due to limitations of the server, the charts can only display the data for up to 10 days prior)
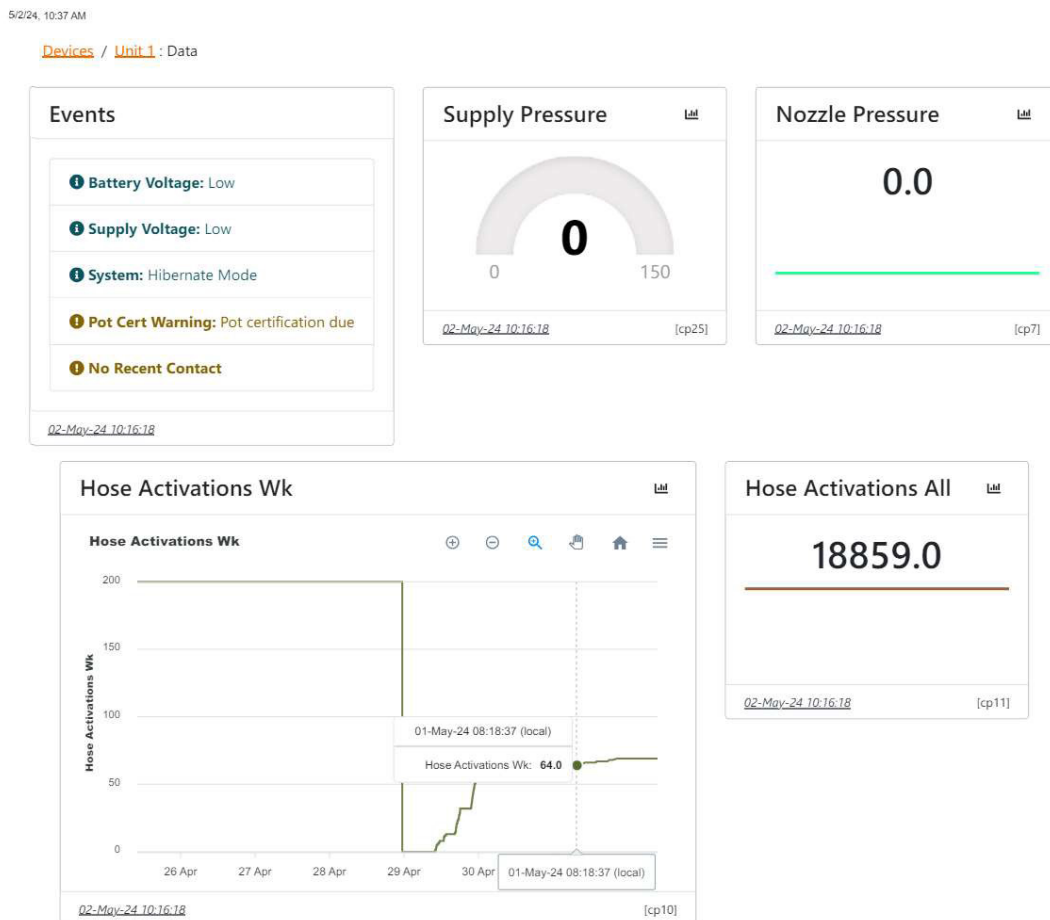
Figure 18. Generated trend graph for weekly hose activations

The generated trend graph will have the desired measurement on the y-axis, and the date of measurement (or time of measurement depending on selected time range). A specific instantaneous measurement value can be found by hovering the mouse over the graph with the snapshot moving as the mouse moves across the x-axis.

A specific section of the trend can also be zoomed in on for closer interrogation by clicking and dragging a box around the area of interest while the magnifying glass is selected.

Figure 19. Section selection on the line graph

The plot can also be navigated by selecting the hand icon then dragging backwards and forwards, up and down. The graph can then be navigated to the default section using the home icon.

Pressing the three lines at the top right of the plot allows the plot to be exported as a **SVG**, **PNG**, or for the data across the range to be downloaded as a **CSV**.

Figure 20. Graph data exporting options

RAW DATA EXPORT OPTIONS

Pressing the "Raw Data" button on the top right of the screen, circled in Figure 21 below, will open the screen seen in Figure 22.
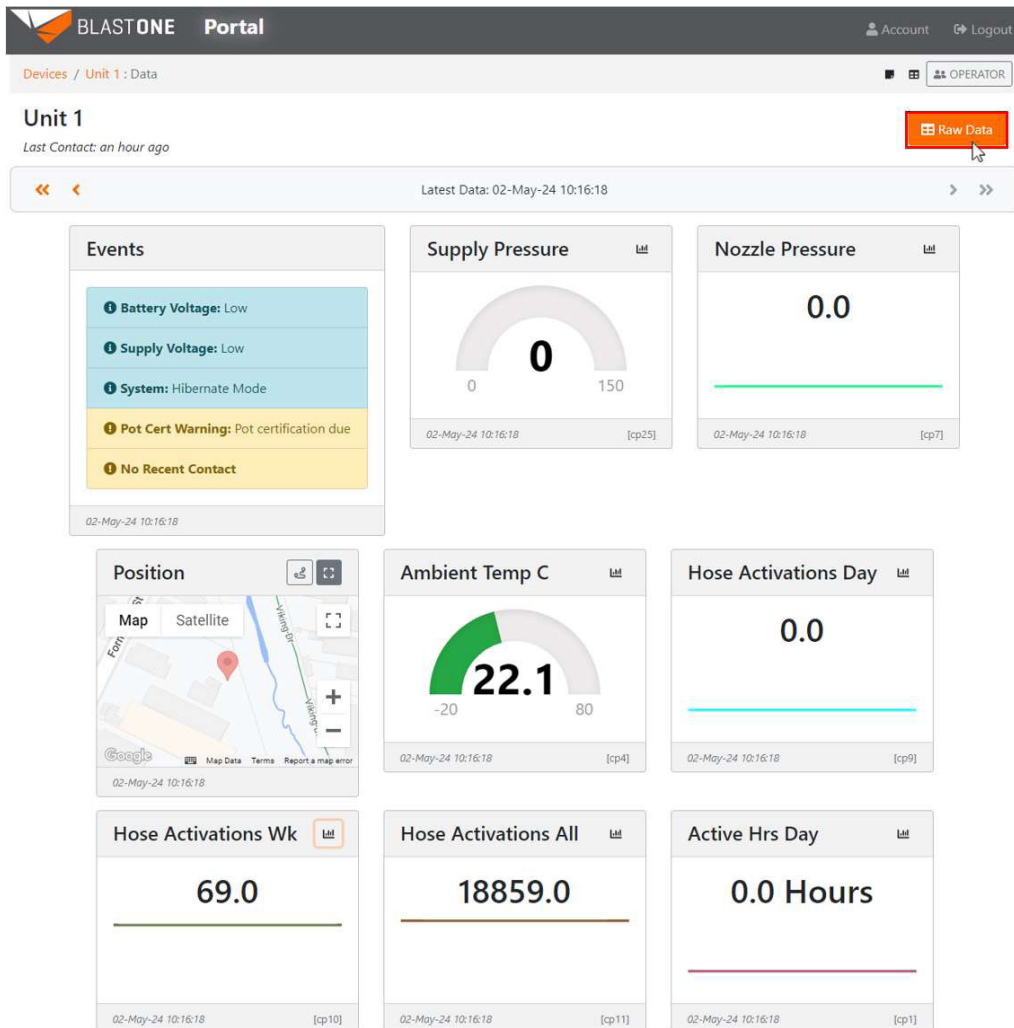
Figure 21. Raw Data box for Exporting raw trend data

Figure 22. Raw data export screen

After selecting the desired date range and pressing the load data button the screen will appear like the one seen in Figure 23 below. (Note: due to server limitations, data over larger ranges will need to be downloaded in separate lots)

Figure 23. Example exported data

Different device data can be either added or removed from this data set by pressing the x next to the data tags in the boxed region seen in Figure 23 above. Alternatively, the data can be cleared with the "Clear Columns" button; all available data is added with the "All Columns" button; or only the events can be added with the "Events Only" button.

The data can then be exported to a CSV for further analysis by pressing the "Export to CSV" button, which will download a file with the selected columns which, when opened in excel, appears as below:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
1	Device Da	Speed	Internal T	Atmosphe	Supply Pr	Supply Ho	Active Hrs	Active Hrs	Active Hrs	Ambient 1	Nozzle Pr	Date	Hose Acti	Hose Acti	Hose Acti	Service 1	Service 2	Service 3	Pot Cert	Ambient 1	Supply Pressure	
2	29/04/202	undefined	41.45	102.14	102.79	11542.04	0.7	0.7	1568.6	33.2	100.4	11:19:04	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.7	102.8	
3	29/04/202	undefined	41.45	102.14	101.03	11542.04	0.7	0.7	1568.6	33.2	98.6	11:19:09	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.7	101	
4	29/04/202	0	41.46	102.14	101.03	11542.05	0.7	0.7	1568.6	33.2	98.6	11:19:18	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.7	101	
5	29/04/202	undefined	41.47	102.14	102.79	11542.05	0.7	0.7	1568.6	33.2	100.4	11:19:19	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.7	102.8	
6	29/04/202	undefined	41.47	102.13	102.79	11542.05	0.7	0.7	1568.6	33.2	100.4	11:19:24	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.7	102.8	
7	29/04/202	undefined	41.46	102.13	104.56	11542.05	0.7	0.7	1568.6	33.2	102.2	11:19:29	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.7	104.6	
8	29/04/202	undefined	41.47	102.14	106.32	11542.05	0.7	0.7	1568.6	33.2	103.9	11:19:34	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.7	106.3	
9	29/04/202	undefined	41.48	102.14	106.32	11542.05	0.7	0.7	1568.6	33.2	103.9	11:19:39	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.7	106.3	
10	29/04/202	undefined	41.47	102.13	108.09	11542.05	0.7	0.7	1568.6	33.2	105.7	11:19:44	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.7	108.1	
11	29/04/202	undefined	41.48	102.14	108.09	11542.06	0.7	0.7	1568.6	33.2	105.7	11:19:49	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.7	108.1	
12	29/04/202	undefined	41.47	102.14	106.32	11542.06	0.7	0.7	1568.6	33.2	103.9	11:19:54	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.7	106.3	
13	29/04/202	undefined	41.48	102.14	104.56	11542.06	0.7	0.7	1568.6	33.2	102.2	11:19:59	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.7	104.6	
14	29/04/202	undefined	41.48	102.14	101.03	11542.06	0.7	0.7	1568.6	33.2	98.6	11:20:04	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.7	101	
15	29/04/202	undefined	41.49	102.14	101.03	11542.06	0.7	0.7	1568.6	33.2	98.6	11:20:09	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.7	101	
16	29/04/202	undefined	41.5	102.14	97.5	11542.06	0.7	0.7	1568.6	33.2	95.1	11:20:14	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	97.5	
17	29/04/202	undefined	41.5	102.14	95.74	11542.06	0.7	0.7	1568.6	33.2	93.3	11:20:19	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	95.7	
18	29/04/202	undefined	41.49	102.14	95.74	11542.07	0.7	0.7	1568.6	33.2	93.3	11:20:24	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.7	95.7	
19	29/04/202	undefined	41.5	102.13	95.74	11542.07	0.7	0.7	1568.6	33.2	93.3	11:20:29	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	95.7	
20	29/04/202	undefined	41.5	102.14	97.5	11542.07	0.7	0.7	1568.6	33.2	95.1	11:20:34	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	97.5	
21	29/04/202	undefined	41.5	102.13	101.03	11542.07	0.7	0.7	1568.6	33.2	98.6	11:20:39	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	101	
22	29/04/202	undefined	41.5	102.13	101.03	11542.07	0.7	0.7	1568.6	33.2	98.6	11:20:44	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	101	
23	29/04/202	undefined	41.51	102.14	101.03	11542.07	0.7	0.7	1568.6	33.2	98.6	11:20:49	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	101	
24	29/04/202	undefined	41.51	102.14	99.27	11542.07	0.7	0.7	1568.6	33.2	96.9	11:20:54	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	99.3	
25	29/04/202	undefined	41.51	102.13	99.27	11542.07	0.7	0.7	1568.6	33.2	96.9	11:20:59	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	99.3	
26	29/04/202	undefined	41.52	102.14	99.27	11542.08	0.7	0.7	1568.6	33.2	96.9	11:21:04	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	99.3	
27	29/04/202	undefined	41.53	102.14	99.27	11542.08	0.8	0.8	1568.6	33.2	96.9	11:21:09	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	99.3	
28	29/04/202	undefined	41.53	102.14	99.27	11542.08	0.8	0.8	1568.6	33.2	96.9	11:21:14	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	99.3	
29	29/04/202	undefined	41.53	102.13	97.5	11542.08	0.8	0.8	1568.6	33.2	95.1	11:21:19	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	97.5	
30	29/04/202	undefined	41.54	102.14	97.5	11542.08	0.8	0.8	1568.6	33.2	95.1	11:21:24	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	97.5	
31	29/04/202	undefined	41.55	102.14	97.5	11542.08	0.8	0.8	1568.6	33.2	95.1	11:21:29	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	97.5	
32	29/04/202	undefined	41.54	102.13	99.27	11542.08	0.8	0.8	1568.6	33.2	96.9	11:21:34	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	99.3	
33	29/04/202	undefined	41.55	102.13	97.5	11542.09	0.8	0.8	1568.6	33.2	95.1	11:21:39	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	97.5	
34	29/04/202	undefined	41.56	102.14	97.5	11542.09	0.8	0.8	1568.6	33.2	95.1	11:21:44	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	97.5	
35	29/04/202	undefined	41.56	102.13	97.5	11542.09	0.8	0.8	1568.6	33.2	95.1	11:21:49	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	97.5	
36	29/04/202	undefined	41.55	102.13	97.5	11542.09	0.8	0.8	1568.6	33.2	95.1	11:21:54	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	97.5	
37	29/04/202	undefined	41.55	102.13	97.5	11542.09	0.8	0.8	1568.6	33.2	95.1	11:21:59	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	97.5	
38	29/04/202	undefined	41.55	102.14	97.5	11542.09	0.8	0.8	1568.6	33.2	95.1	11:22:04	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	97.5	
39	29/04/202	undefined	41.55	102.13	97.5	11542.09	0.8	0.8	1568.6	33.2	95.1	11:22:09	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	97.5	
40	29/04/202	undefined	41.56	102.13	97.5	11542.1	0.8	0.8	1568.6	33.2	95.1	11:22:14	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	97.5	
41	29/04/202	undefined	41.55	102.13	97.5	11542.1	0.8	0.8	1568.6	33.2	95.1	11:22:19	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	97.5	
42	29/04/202	undefined	41.55	102.14	97.5	11542.1	0.8	0.8	1568.6	33.2	95.1	11:22:24	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	97.5	
43	29/04/202	undefined	41.54	102.13	97.5	11542.1	0.8	0.8	1568.6	33.2	95.1	11:22:29	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	97.5	
44	29/04/202	undefined	41.55	102.13	97.5	11542.1	0.8	0.8	1568.6	33.2	95.1	11:22:34	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	97.5	
45	29/04/202	undefined	41.55	102.13	95.74	11542.1	0.8	0.8	1568.6	33.2	93.3	11:22:39	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	95.7	
46	29/04/202	undefined	41.55	102.13	97.5	11542.1	0.8	0.8	1568.6	33.2	95.1	11:22:44	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	97.5	
47	29/04/202	undefined	41.54	102.13	99.27	11542.11	0.8	0.8	1568.6	33.2	96.9	11:22:49	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	99.3	
48	29/04/202	undefined	41.54	102.13	97.5	11542.11	0.8	0.8	1568.6	33.2	95.1	11:22:54	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	97.5	
49	29/04/202	undefined	41.55	102.13	97.5	11542.11	0.8	0.8	1568.6	33.2	95.1	11:22:59	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	97.5	
50	29/04/202	undefined	41.54	102.13	97.5	11542.11	0.8	0.8	1568.6	33.2	95.1	11:23:04	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	97.5	
51	29/04/202	undefined	41.54	102.13	5.73	11542.11	0.8	0.8	1568.6	33.2	3.3	11:23:09	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	5.7	
52	29/04/202	undefined	41.53	102.13	0.44	11542.11	0.8	0.8	1568.6	33.2	0	11:23:14	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	0	
53	29/04/202	undefined	41.52	102.13	0.44	11542.11	0.8	0.8	1568.6	33.2	0	11:23:19	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	0	
54	29/04/202	undefined	41.52	102.13	0.44	11542.12	0.8	0.8	1568.6	33.2	0	11:23:24	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	0	
55	29/04/202	undefined	41.52	102.13	0.44	11542.12	0.8	0.8	1568.6	33.2	0	11:23:29	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	0	
56	29/04/202	undefined	41.53	102.13	0.44	11542.12	0.8	0.8	1568.6	33.2	0	11:23:34	5	5	18795	L: 0 h	L: 0 h	L: 0	L: 01-11-	91.8	0	

Figure 24. Example exported data

RULES FOR SAFE OPERATION

- **Know your equipment**

  Do Not operate this equipment in a manner other than its intended application.

  Do Not operate this equipment without following the Rules for Safe Operation and all the operating procedures. Failure to do so could result in serious injury or death.

- **Receive proper training**

  Do Not operate or perform maintenance on this equipment unless you have received operational and maintenance training. Begin by thoroughly reading and understanding this document and any operational and maintenance manual or instructions for the equipment that will be used in conjunction with the IntelliBlast Lite.

  Should you require assistance with training, consult an authorized BlastOne representative.

- **Use proper personal protective equipment (PPE)**

  Do Not operate or perform maintenance on this equipment without wearing OSHA approved eye, ear, foot, and lung protection.

- **Adhere to all regulations**

  Do Not operate or perform maintenance on this equipment without observing all local, state, and federal safety regulations including, but not limited to, OSHA (Occupational Health and Safety Administration).

- **Use correct replacement parts**

  Do Not use replacement parts that are not manufactured and furnished by an authorized distributor.

  Incorrect replacement parts can result in equipment failure and cause serious injury or death.

- **Save this operation and maintenance manual**

  Refer to this operation and maintenance manual as well as any other manufacturers information included for equipment that is used in conjunction with the IntelliBlast Lite.

  Never permit anyone to operate this equipment without having him/her first read this manual and receive proper training. Provisions should be made to have this manual readily available to the operating and maintenance personnel. If for any reason the manual becomes lost or illegible, have it replaced immediately.

  This operation and maintenance manual should be read periodically to maintain the highest skill level; it may prevent a serious accident.

LED STATUS GUIDE

STATUS 🟢	NETWORK 🟠	Description
Off	Off	Device is sleeping
Flash (1Hz)	Off	Setup Mode
On	Flash (1Hz)	No internet connection
On	On	Internet connection
Fast Flash	Fast Flash	Factory Reset
Off	Fast Flash	Firmware Update
Slow Flash	Off	Pre-charge mode

⚠ WARNING ⚠

When maintaining the unit, the trained and qualified technician must use the appropriate PPE before performing maintenance.

BLASTONE
SUPERIOR PERFORMANCE

DAILY COMPONENT AND WORK AREA CHECKLIST

Company name: _____   Date: _____ / _____ / _____

Job details: _____   Completed by: _____

BLAST COMPONENTS

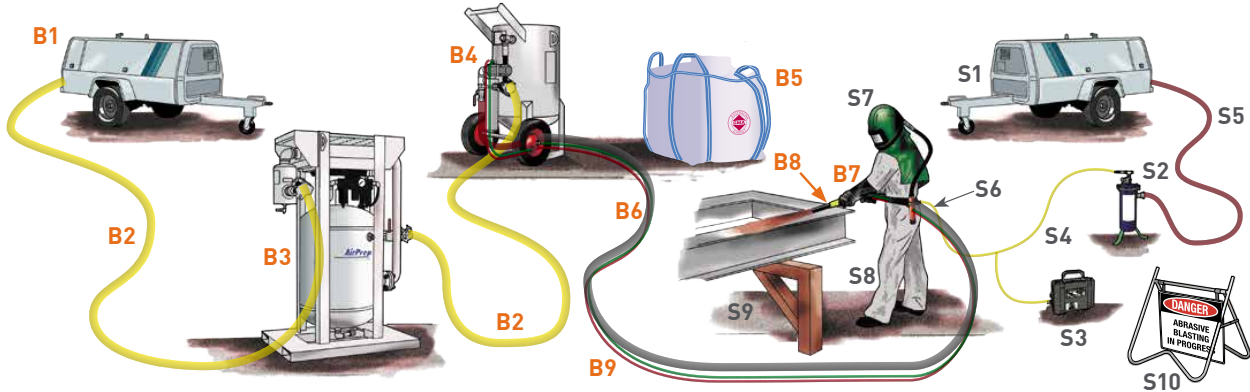| B1	AIR COMPRESSOR	
	Fully maintained, serviced and fuelled	☐
	Located upwind and away from the blasting area	☐
B2	**AIR SUPPLY – BULL HOSE**	
	Large bore hose (4 times nozzle orifice minimum)	☐
	Large connector fittings with whipchecks and/or safety chains installed	☐
	Coupling gaskets in place	☐
	Coupling pins fitted	☐
B3	**AIR MOISTURE CONTROL**	
	Condensate drained and air motor lubricant filled	☐
B4	**BLAST MACHINE**	
	Handle and twinline free from leaks	☐
	Abrasive metering valve cleaned, fittings checked/maintained	☐
	Lid and screen (portable hoppers) fitted	☐
	Blast outlet gasket checked	☐
	Test pressure relief valve	☐
B5	**BLAST ABRASIVE**	
	Kept dry and protected	☐
	Certificates and batch numbers recorded	☐
B6	**BLAST HOSE**	
	Kept as straight and as short as possible – checked daily for wear or soft spots	☐
	Coupling gaskets in place	☐
	Coupling pins fitted	☐
	Whipchecks installed	☐
	Check gasket and components for wear, and air leaks	☐
	Certificates and batch numbers recorded	☐
B7	**REMOTE CONTROL HANDLE**	
	Check operation for fast start/stop	☐
	Deadman operating and safety latch in place	☐
B8	**BLAST NOZZLE**	
	Checked routinely for air pressure and liner/thread wear or damage	☐
	Check nozzle pressure	☐
	Check nozzle size for wear	☐
	Nozzle gasket in place (where applicable)	☐
B9	**DEADMAN HOSE**	
	Check fittings	☐
	Check hose for pin holes or cracks	☐

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PARTS REQUIRED

List all parts that need to be ordered to maintain a safe and efficient work site

CONSUMABLES

Coupling Clips	☐
Blast Tape	☐
Power Ties	☐
Containment	☐
Garnet	☐
Tyvek	☐
Blast Couplings	☐
Screws	☐
Gloves	☐
....	☐
....	☐
....	☐

SITE REQUIREMENTS

Safety Vest	☐
First Aid	☐
Fire Extinguisher	☐
Toilet	☐
Safety Glasses	☐
Ear Protection	☐
....	☐
....	☐
....	☐

HIRE REQUIREMENTS

Vacuload	☐
Dust Collector	☐
Decontamination Unit	☐
....	☐
....	☐
....	☐

TOOLS REQUIRED

Spanners	☐
Hammer	☐
Shovel	☐
Nozzle Wear Tool	☐
Pressure Test Gauge	☐
Shifter	☐
Pipe Wrench	☐
Screw Drivers	☐
Air Drill	☐
Stirrer	☐
Broom	☐
....	☐
....	☐

800-999-1881
sales@blastone.com
www.BlastOne.com

OPERATOR SAFETY COMPONENTS

S1	BREATHING AIR SOURCE	
	Check replacement date on inlet filter	☐
	Checked and maintained on a regular basis	☐
	Located in a clean air atmosphere, upwind and away from the blast area and engine exhaust fumes	☐
S2	**BREATHING AIR FILTER**	
	Check replacement date on filter	☐
	Cartridges require regular programmed replacement	☐
	Pressure gauge in place and operating	☐
	Filters and regulates the breathing air supply	☐
	Test pressure relief valve	☐
S3	**CARBON MONOXIDE MONITOR OR CONVERTER MONITOR**	
	Checked, tested and calibrated (calibration certificate on file)	☐
	Batteries checked	☐
S4	**BREATHING AIR LINE**	
	Fitted with threaded screw-type connector or AS 1715 approved 'Safety Type' coupling with two distinct actions to avoid accidental disconnection	☐
	Free from kinks, abrasion	☐
S5	**AIRLINE BREATHING AIR**	
	Airline for maximum airflow 1" or C\v"	☐
	Coupling gaskets in place	☐
	Coupling pins fitted	☐
S6	**FATIGUE MANAGEMENT AND NOXIOUS GAS PROTECTION**	
	Air temperature control within 15°C – 25°C range for operator comfort	☐
	Suitable Personal Gas Monitor (H_2S, O_2, CO, CO_2)	☐
S7	**BLAST HELMET (RESPIRATOR)**	
	Inspected and maintained for wear and tear to the cape, collar, head gear and visor as per AS 1715 requirements	☐
	New/clean inner and outer lens in place	☐
	Inner lens securely in place for impact protection	☐
	Helmet sanitized between operators	☐
	Supplied with minimum 170 litres/minute breathing quality air as per AS 1715	☐
S8	**OTHER PROTECTIVE CLOTHING**	
	Safety footwear	☐
	Ear plugs and blasters gauntlets	☐
	Glasses	☐
S9	**WORK HAZARDS**	
	Check, control and eliminate wherever possible:	☐
	Physical dangers – tripping, falling, crushing	☐
	Toxic substances e.g. lead, arsenic, cyanide, heavy metals, chromates, free silica, etc. present either in the abrasive, the coating, the substrate or the environment	☐
S10	**WARNING SIGNS AND BARRIERS**	
	On display and not obstructed	☐
	Site Specific PPE signs displayed and not obstructed	☐
	Personnel barriers in place	☐

BLASTONE SUPERIOR PERFORMANCE

RISK ASSESSMENT WORKSHEET

Company name: _____ Date: _____ / _____ / _____

Job details: _____ Completed by: _____

SITE HAZARD CHART

NO	CATEGORY (REFER TO CHART BELOW)	HAZARD	RISK SCORE	CONTROLS	RISK SCORE

CATEGORIES

Physical	Noise, temperature, light, radiation	Fire / Explosion	Gas, flammable, explosion
Chemical	Hazardous substances or dangerous goods	Electrical	Cables, power points, data lines
Mechanical	Plant, equipment – entanglement, hit	Ergonomic	Man handling, posture, reach, static load
Biological	Substances – Hepatitis, HIV, virus, bacteria	Slip/Trip/Fall	Fall from height, same level
Psychological	Stress, violence	Confined space	Vessels, pits, tanks, security areas

RISK RATING CHART

LIKELIHOOD		CONSEQUENCE				
		1. INSIGNIFICANT No injury or damage expected	**2. MINOR** Could cause First Aid injury or minor damage	**3. MODERATE** Could require medical attention and several days off work or moderate damage	**4. MAJOR** Could cause serious long term illness or injury or major damage	**5. CATASTROPHIC** Could kill, cause permanent disability or ill health or cause very serious damage
E	**ALMOST CERTAIN** Could happen any time	H	H	E	E	E
D	**LIKELY** At some point in time	M	H	H	E	E
C	**POSSIBLE** Possible it might happen	L	M	H	E	E
B	**UNLIKELY** Not likely to happen	L	L	M	H	E
A	**RARE** Could happen, but probably never will	L	L	M	H	H

CLASS E	Extreme Risk	Immediate action required
CLASS H	High Risk	Senior management attention required
CLASS M	Moderate Risk	Management responsibility must be specified
CLASS L	Low Risk	Manage by routine procedures

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