Kit Part Number: 700406

Breathe Safe Part of Aire Safe

Parts and Service Manual

DYNAPAC CA3500 COMPACTOR

HEPA H14 Variable Speed Pressuriser | INPRESS TS Cabin Display with CO2 Sensor | HEPA Return Air Filter

- +61 7 3276 7833
- www.breathe-safe.com.au
- sales@breathe-safe.com
- 62 Mica Street, Carole Park, 4300, QLD

Controlled Document: M0103

Issue Date: 04/09/23

Revision: 1

INSTALLATION

INSTALLATION OVERVIEW				
Manufacturer	DYNAPAC			
Туре	Compactor			
Model	CA3500			
Cabin Pressure Max				
Set Auto Cabin Pressure				





HEPA H14 Variable Speed Pressuriser



INPRESS TS Cabin Display with Data Recorder



HEPA Return Air Filter

CONTENTS

Installation 1
Safety2
Critical Parts & Maintenance Schedule
Operator Guide4
Specifications - Pressuriser5
Parts List 6-12
Technical Details 13-14
Smoke Emitter Cabin Pressure Leak Test15
Cabin Sealing Test Pressure16
Commissioning Procedures17
Troubleshooting Guide18
User Settings Instructions 19-24
Data Download 25-27
Warranty28



SAFETY



THE PRESSURISATION SYSTEM DESCRIBED IN THIS MANUAL HAS THE FOLLOWING AREAS WHICH MAY BE DANGEROUS IF NOT TREATED WITH GREAT CARE.

OUALIFIED STAFF MUST WEAR THE CORRECT PERSONAL PROTECTIVE EQUIPMENT WHEN CLEANING AND SERVICING THIS UNIT DUE TO DUST AND FIBRES WHICH MAY BE CAUGHT BY THE STAGES OF AIR FILTRATION DURING NORMAL UNIT OPERATION.

THE ELECTRICAL POWER SYSTEM IS SUPPLIED BY 12V DC OR 24V DC AND NO WORK SHOULD BE CARRIED OUT ON THE PRESSURISER SYSTEM WITHOUT THE CORRECT SAFE WORK PROCEDURES AND ELECTRICAL SAFETY MEASURES BEING TAKEN, AND ALL RELEVANT CIRCUIT BREAKER OPENED TO ISOLATE THE CIRCUIT.

THE AIR FILTRATION SYSTEM MAY HAVE SEVERAL TYPES OF HIGH-SPEED ROTATING EQUIPMENT INSTALLED WITH VERY SHARP EDGES. ENSURE ALL SAFETY GUARD ARE IN PLACE WHILE THE SYSTEM IS RUNNING.

Please be aware that HEPA filters cannot be cleaned and must be replaced at the end of their lifecycle or if filter media has been damaged.



Dust Mask

Eye Protection

Protective Clothing

Particulate Behaviour

This is the length of time it takes for a particle to drop from a height of 1.5m in STILL air.

20µm	10µm	5µm	2µm	1µm	0.5µm
3.6 mins	8.3 mins	35.7 mins	2.8 hrs	12 hrs	41.7 hrs
		0	0	•	
					-

Warehouses and workshops do not have still air, so hazardous airborne particulates may remain in air for longer, increasing chance for workers to breathe in dust. Ensure PPE is worn when installing this system.



CRITICAL PARTS & MAINTENANCE SCHEDULE

Maintenance Schedule

The following tables show our suggested maintenance schedule for all units. Please note that site conditions may alter this. Excludes high corrosion environments.

Data download is required to claim the 3-year warranty on Brushless Blower Motor.

Inspect every 500 Hours and replace when filter is full*

Component / System	Action Required
Turbo Pre-cleaner	Check operation of the Turbo Pre- Cleaner.
Pressuriser Blower	Ensure blower is operational.
HEPA Primary Filter p/n: 500000	Inspect filter capacity indicator. Replace HEPA filter when 80% or greater. Vacuum out housing before replacing the filter elements.
HEPA Return Air Filter P/N: 5000	Vacuum inside cabin floor before replacing filter.
Filter Frame Assembly, Mounts, Seals and Filter Housing	Check door seals, all bolts, screws, and all mounts are secure. Check the filter canister & ensure it is correctly fitted. Check latches are operational and in good order. Replace / Re-tension fixtures and fittings required.

15,000 Hours / 36 months*

Component / System	Action Required		
500 Hour Inspection	All 500-hour inspection actions.		
Pressuriser's Blower 200002	Replace BRUSHLESS Pressuriser blower.		

	Critical Parts						
Item	Part Number	Qty.	Description	Service Interval			
1	500000	1	Fresh Air HEPA H14 Filter (Tested as per EN1822)	1000* Hours (>80% fan capacity)			
2	5000	1	HEPA Return Air Filter	500* Hours			
3	200002	1	Brushless Blower Motor – 24V	15,000 Hours			
4	200027	1	BreatheSafe Digital Display – Data Recorder (INPRESS TS)				

*Filter service hours are subject to cab sealing efficiency, site conditions and correct system use.

Suggested Schedule Servicing*



Fan Capacity Indicator

The filter is serviceable if the motor capacity is between 10% & 80%. We recommend that the filter is changed if the capacity is over 80%.

*Site dependent

OPERATOR GUIDE

	OPERATORS CHECKLIST						
	PRE-START						
1.	Visually inspect the BreatheSafe system for any damage.						
2.	2. Visually inspect the cabin for any damage to doors, windows, seals.						
3.	3. Please remove dust & debris from shoes and clothes before entering the cabin.						
4.	4. Ensure door(s) and windows are closed correctly.						
5.	5. Start engine and turn HVAC on to speed 2 (medium speed).						
6.	6. After fixed speed delay, the BreatheSafe display will show 50 Pascals or pre-set value.						
	The system is working correctly when the pascal value is green.						
	>> There is no further action required <<						

NORMAL OPERATING CONDITION

Cab Air Conditioning

BreatheSafe recommends OEM air conditioning fan is set at mid speed or greater to circulate air around the breathing zone and minimise CO₂.

Acceptable operating range for BreatheSafe fan 10-80%. >80% recommend maintenance.

ALERTS

Fixed Fan Start Delay

• Allows the operator to carry out pre-start checks – limiting at 30% fan speed, press the red text to disable.

CO₂ Level Alert (if equipped)

• Ensure air conditioning fan is set at mid speed or greater to circulate air and minimise CO₂.

Low Pressure Alarm

- Cabin is not maintaining positive pressure check doors and windows are closed correctly.
- Refer to maintenance department to check filters and cabin sealing. Ensure filters are serviceable.

Check Filter

- Reminder to inspect or replace filter. Service hour meter requires re-set.
- Refer to maintenance department.





Specifications High-Capacity HEPA Pressuriser

Blower	: Brushless Blower P/N 200002.
Protection	: Locked Rotor Protection (Sub Zero Environments) Under Voltage, Under/Over Current & Over Temperature.
Voltage	: 24VDC.
Current Draw	: 11 amps (peak). *Note: Motor has slow start to stop excessive in-rush current.
Air Flow	: Up to 30-300 m ³ /h or 50-215 CFM.
Pre-cleaner	: Integrated VLR (Very Low Restriction). Turbo Pre-Cleaner.
Filter Element	: BreatheSafe HEPA Primary Filter (H14=99.99% MPPS) TESTED AS PER EN1822 – P/N 500000.
Plugs & Fittings	: Mining Spec. Deutsch electrical plugs as standard.
Construction	: High strength composite construction.
Serviceability	: Easy access HEPA filter with twist-lock (TL) dust cap single assembly.
Mounting	: Heavy Duty adjustable mounting brackets.
Design	: Fully designed in SolidWorks 3D CAD & Ansys Engineering Simulation Software.
FEA Testing	: Critical components FEA (Finite Element Analyst) tested in Solid Works Simulation.
CFD Testing	: CFD (Computational Fluid Dynamics) simulations in Flow Works to ensure optimum air flow through the system.

SPECIFICATIONS HIGH-CAPACITY HEPA PRESSURISER

	List of Abbreviations
DH	Dual HEPA
DHPR	Dual HEPA Powered Recirculation
DHAC	Dual HEPA Activated Carbon
DHACPR	Dual HEPA Activated Carbon Powered Recirculation
СРМ	Cabin Pressure Monitor
CPU	Central Processing Unit
DB	Decibel Sensor
DPM	Diesel Particulate Matter
GAS	Gas Sensor
HEPA	High-Efficiency Particulate Air Filter
HPAFU	High Pressure Air Filtration Unit
HRAF	HEPA Return Air Filter
HVAC	Heating Ventilation and Air Conditioning
MAF	Mass Air Flow
OEM	Original Equipment Manufacturer
PM	Particulate Mass
RH	Relative Humidity
TEMP	Temperature
TS	Touch screen
UI	User Interface
VMS	Vehicle Monitoring System
VS	Vibration Sensor
OGSP	OnGuard Sensor Pod
CO2s	CO2 Sensor INPRESS TS

Breathe Safe Part of Air Safe

Item No.	Qty.	Description	Part No.
1	1	Pre-cleaner Hood & Rotor Assy	200004
2	4	Pre-cleaner Injector Ring	200005
3	1	TL Fan Blade (inc. in #7)	200006
4	1	TL Nose Cone / Pre-cleaner	200007
5	1	TL Motor Housing	200008
6	1	TL Filter Housing	200009
7	1	24v DC Brushless VSD Motor & TL Fan Blade	200002
8	1	O Ring Seal Kit 2 Parts	200010
9	1	Included in 8	200011
10	1	Wiring Sleeve	200012
11	1	HEPA H14 Filter	500000
12	3	M6 Nyloc Nut	300218 (M6NYL)
13	3	M6 x 55mm Hex Bolt	300982 (M655B)
14	4	M8 x 190 Hex Bolt	301136 (M8190B)
15	8	M8 x 22mm O/D HD Washer	300230 (M8222HTW)
16	4	M8 Nyloc Nut	300249 (M8NYL)
17	5	M4 x 75mm Pan Head Phillips Screw	300162 (M475PBH)

PARTS LIST – TL4 24V DC PRESSURISER UNIT

PRESSURISER ASSEMBLY No: 200000



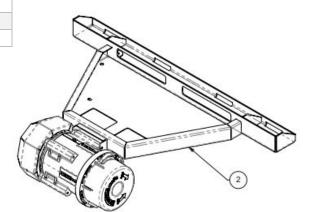
Breathe Safe Part of Air Safe

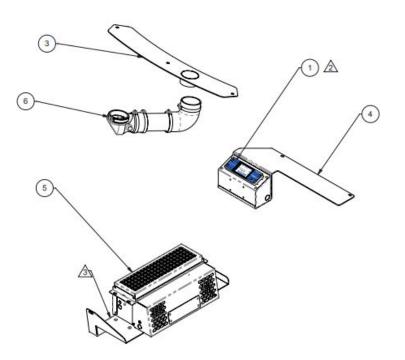
COMPLETE ASSEMBLY No: 700406

PARTS LIST GA

Item No.	Part No.	Rev	Description	Qty	Colour	Category
1	200202	[*]	TS Controller Assy	1	-	Stock Item
2	100059A01	2	Pressuriser Module	1	Charcoal Grey MX83-682	Module
3	100059F01	0	Fresh Air Module	1	Charcoal Grey MX83-682	Module
4	100059M01	0	Monitor Mount Module	1	Charcoal Grey MX83-682	Module
5	100059K01	2	Return Air Module	1	Charcoal Grey MX83-682	Module
6	100059P01	0	Pipework Module	1	Charcoal Grey MX83-682	Module

Kit Part Number: 700406

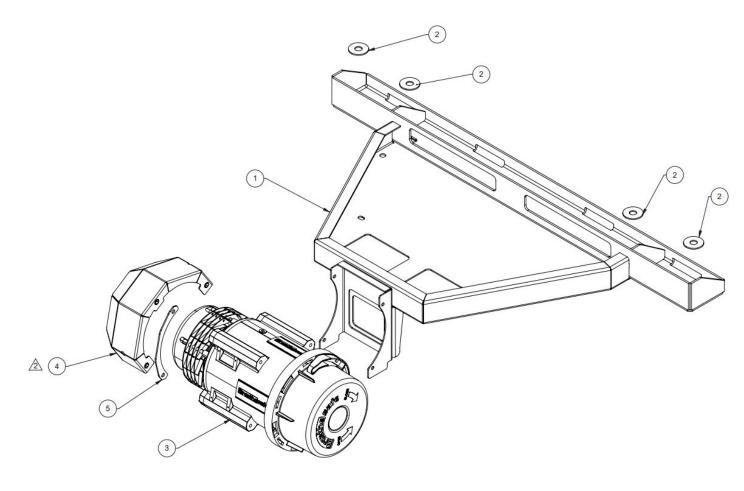




Breathe Safe Part of Afre Safe

Item	Part No.	Rev	Description	Qty	Material	Thickness	Colour	Category
1	100059A02	1	Pressuriser Mount Assy	1	-	-	Charcoal Grey MX83-682	Weld Assy
2	100059-A217	0	16mm Washer	4	Mild Steel	3	Charcoal Grey MX83-682	Part
3	200000	[*]	TL4 24V DC Unit	1	-	-	-	Stock Item
4	250068	[*]	TL Washer Cannon Guard Short	1	-	-	(As Req'd)	Stock Item
5	250073	[*]	TL 3mm Double Spacer	1	Mild Steel	3	(As Req'd)	Stock Item

PARTS LIST – PRESSURISER MODULE



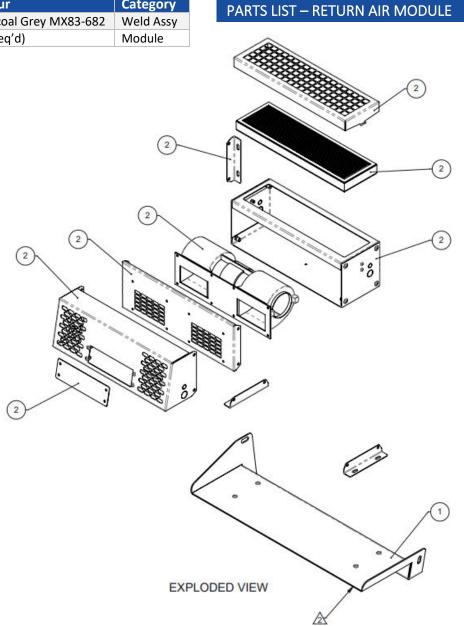
PARTS LIST – FRESH AIR MODULE

Item No.	Part No.	Rev	Description	Qty	Material	Thickness	Colour	Category
1	100059-F215	0	Fresh Air Inlet Cover	1	Mild Steel	3	(As Req'd)	Part
2	300388-0400	-	76.3 x 1.6 @ 40mm	1	Stainless Steel Tube	Ø3.0"xDx1.6W/T	(As Req'd)	Pipework

PARTS LIST – MONITOR MODULE

Item No.	Part No.	Rev	Description	Qty	Material	Thickness	Colour	Category
1	100059-M221	0	Monitor Bracket	1	Mild Steel	3	(As Req'd)	Part
2	250101	[*]	Controller LRG STD Box	1	Zan	-	(As Req'd)	Stock Item

Item No.	Part No.	Rev	Description	Qty	Material	Thickness	Colour	Category
1	100059K02	2	P-RAF Mount Bracket Assy	1	-	-	Charcoal Grey MX83-682	Weld Assy
2	13651	4	Portable R.A.F. Assy	1	-	-	(As Req'd)	Module



Item No.	Part No.	Rev	Description	Qty	Material	Thickness	Colour	Category
1	300848	-	3" Cobra Neck	1	Silicone	-	-	Pipework
2	200308	-	3" x 90* Elbow Short Drop Sil	1	Silicone	-	-	Pipework
3	760DSS180	-	76.3 x 1.6 @ 180mm	1	Stainless Steel	Ø3.0"ODx1.6W/T	(As Req'd)	Pipework
4	300001	-	65-89mm Hose Clamp	5	-	-	-	Pipework
5	300850	-	3" Tube @ 60 Long	1	Silicone	1.6	-	Pipework

PARTS LIST – PIPEWORK MODULE

2 4 4 Minimut, 3 4 5 4 (1)A State



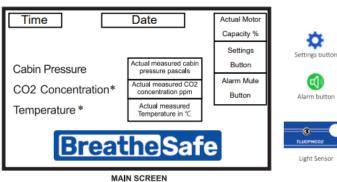


TECHNICAL DETAILS

Display Key Features

- Digital cabin pressure monitoring system
- Automatic cabin pressure control
- Intelligent fan speed output
- Data logger
- Alarm for low-pressure (RS20)
- Light sensor for automatic dimming of the screen





Options* when fitted

CO2 Sensor

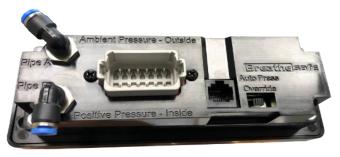
- CO2 Sensor Type is NDIR (Non-Dispersive Infrared)
- Sample Rate is every 2 seconds
- 12-30V DC Operating Voltage
- Automatic Altitude Compensation
- Alarm Set points are adjustable
- No setup required



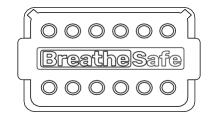


TECHNICAL DETAILS

Connections: 200027



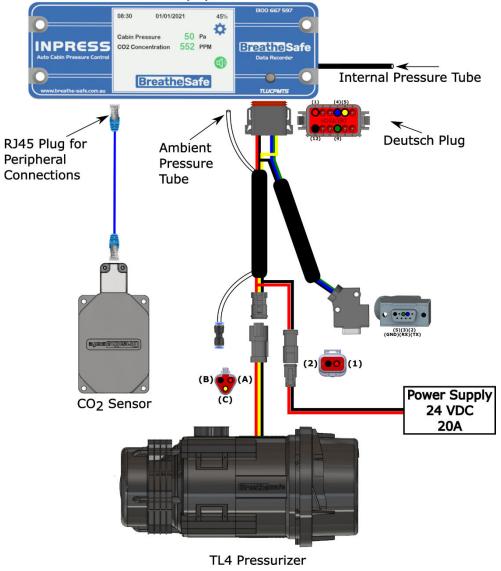
Item	Destination
1	PIPE A – AMBIENT PRESSURE – OUTSIDE
2	PIPE B – POSITIVE PRESSURE – INSIDE
3	RJ45 CONNECTOR – CO2 SENSOR
4	OVERRIDE TOGGLE SW = MAX SPEED



Item	Destination
1	12/24 VOLT POSITIVE SUPPLY
2	CAN H OPTION
3	CAN L OPTION
4	SERIAL TRANSMIT RS232
5	MOTOR CONTROL VOLTS OUT
6	ALARM + OUTPUT
7	TEMP SENSOR
8	NO CONNECTION
9	SERIAL RECEIVE RS232
10	DOOR INPUT (+)
11	WINDOW INPUT (+)
12	OV NEGATIVE GROUND

Wiring Diagram

INPRESS User Interface (UI)



Breathe Safe

* Do not handle until MSDS & all safety precautions have been read and understood. Use personal protective equipment as required.

Before use, carefully read the product label. Safe work practices are advised to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking, and smoking in contaminated areas. Avoid inhalation. Mechanical extraction ventilation is recommended when the removal of atmospheric contaminants is required. Maintain dust / fume levels below the recommended exposure standard. For small amounts, absorb with sand, vermiculite or similar and dispose of at an approved landfill site.

WARNING

For Professional Use Only – keep out of reach of children.

Do not ignite near or around flammable materials.

Use only in well-ventilated areas, outdoors, and/or with proper respiratory protection.

Persons with respiratory sensitivity should avoid exposure to any smoke.

Concentrated smoke may cause severe burns to the skin, eyes, or respiratory system.

Improper use may result in sufficient inhalation of smoke to cause respiratory tract irritation and lung damage. Harmful if swallowed.

DANGER

Use only as directed. Do not handle until all safety precautions, including Safety Data Sheet, have been read and understood. The product contains hexachloroethane. Wear protective clothing. If exposed or concerned, get medical advice. Store in a cool, dry, secure location. KEEP OUT OF REACH OF CHILDREN. Dispose of contents/container per location regulations. When used as directed, exposure should be limited and usually poses no hazard because the hexachloroethane is consumed inside the tube as smoke is produced.

Directions: (Smoke Bomb)

- 1. Ensure other workers in close proximity are informed of use. Place on a non-combustible container, away from flammable materials.
- 2. Place at Blower intake, or upwind of target area, or near centre of space.
- 3. Orient "Smoke Issues Here" toward air stream, away from surfaces. Place candle on a flame / heat resistance plate if not it will melt into the plastic surface.
- 4. Ensure smoke will not create any hazard where it is anticipated to go.
- 5. Ignite emitter inside the cabin using site approved device i.e., solder torch or 'lighter' and conduct smoke test.
- 6. Do not touch or hold smoke generator after ignition item becomes very hot & remains hot after use.

Smoke Emitter Cabin Pressure Leak Test

- 1. The pressuriser system is switched on (TEST MODE).
- 2. Hold the smoke emitter angled down.
- 3. Ignite emitter using site approved ignitor i.e., solder torch or 'lighter'.
- 4. When the product ignites, remove the lighter.
- 5. If the product flames up, blow out the flame.
- 6. Place the emitter in a non-flammable container and place it inside the cabin at floor level and close the door/windows.
- 7. Observe smoke leaks to indicate worn-out or broken seal locations. Check leakage points outside the cabin.
- 8. Do not come into contact with or inhale smoke haze.
- 9. Wait until the smoke haze **completely** disperses before re-entering the cabin. Open door to allow sufficient ventilation of smoke prior to entering cabin.

SMOKE EMITTER CABIN PRESSURE LEAK TEST

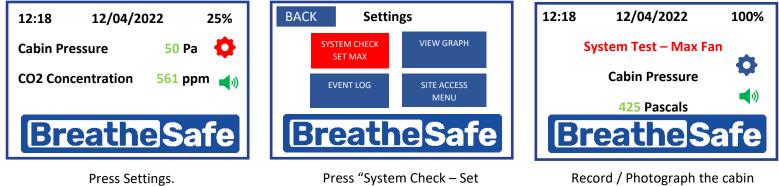
Link to MSDS: SMOKE GENERATOR TQ7621AT30S.pdf

	Personal Protective Equipment (PPE)
	Safety glasses must be worn at all times.
9	
2	Sturdy footwear with rubber soles must be worn.
8	Respiratory protection devices may be required.
	Gloves may be worn.
	Pre-operational Safety Checks
\checkmark	Locate and ensure you are familiar with all machine
	operations and controls.
\checkmark	Check work area and walkways to ensure no slip/trip
	hazards are present.
\checkmark	Ensure the work area is clean and clear of any flammable
	material & fire extinguish device is present.
	Operational Safety Checks
 	Ensure the machine is correctly isolated / immobilized.
\checkmark	Ensure other persons do not inhale smoke haze.
\checkmark	Take care and do not place a lit emitter close to a
	flammable surface.
	Ending Operations and Cleaning Up
\checkmark	Leave the work area in a safe, clean, and tidy state.
	Potential Hazards
í	Falls
(i) (i)	Fumes
í	Fire
í	May cause cancer
•	sure is highly unlikely when the product is used as directed. Direct act with the product does not occur.
	Don't
×	Do not use if an open flame is forbidden.
×	Never leave the emitter [cabin test] unattended.

*This SWP does not necessarily cover all possible hazards associated with this equipment and should be used in conjunction with other references. It is designed as a guide to be used to compliment training and as a reminder to users prior to equipment use.

CABIN SEALING TEST PROCEDURE

	Cabin Sealing Efficiency Test Procedure
1	Start Engine – Pressuriser System is ON
2	Ensure all windows & door(s) are CLOSED correctly (no cabin pressure leaks) NOTE: for a new cabin with effective seals, you may need to open a window slightly before closing the door to bleed the static cabin air pressure outwards. Once door is fully closed then close windows to begin testing.
3	Enter the Settings menu via the touch screen button.
4	Select and press the System Check button to go to System Test – Max Fan.
5	Record / photograph the maximum cabin pressure achieved.



Max" box.

Record / Photograph the cabin pressure result (Max Fan Speed).

Commissioning Procedures

COMMISSIONING PROCEDURES – CABIN PRESSURISER

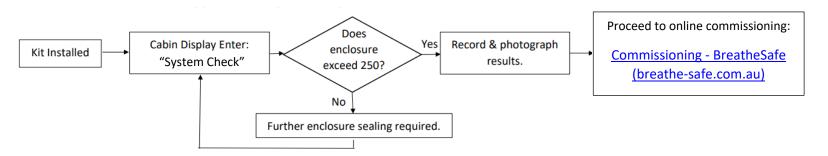
Follow each step of the installation guide that was supplied with the BreatheSafe kit.

Cabin sealing is an integral part of RS20 & ISO 23875; you must ensure that cabin seals are adequate for maintaining positive pressure. In addition, the site (end- user) must have the correct procedure(s) for servicing OPERATOR enclosure seals in a proactive manner rather than reactive. Items such as door and window seals must be in good working order or new seals FITTED before the BreatheSafe system installation.

Touch-screen cabin pressure display/controller Part# 200027:

*System Check Function: enter the Settings menu option and select "System Check – Set Max." The minimum BreatheSafe requirement for cabin sealing efficiency is 250 pascals; if this result is not met, it is essential to re-examine and find pressure leaks of the enclosure and apply new sealing measures.

Submission for commissioning procedure as per the diagram below:



The commissioning images required are:

- ID plate / Machine Serial Number / Asset Number or Call Sign
- INPRESS TL Pressuriser location
- HEPA Return Air Filter Location Option: Powered Return Air Filter
- Cabin Pressure Display Location Including the "System Check" maximum cabin pressure result with motor output capacity %

Fill in the BreatheSafe Service Tag with the following details:

- Machine Serial Number and Installers details
- Date installed and System Check result (max cabin pressure)
- The set cabin pressure with actual pressure and motor percentage output
- Verify the 250-pascal threshold was achieved = pass OR not achieved = fail**

Please upload machine and installation details in conjunction with the required images. A Commissioning Certificate will be sent to the email address you nominate. **Extended warranty for (RS20 & ISO 23875) BreatheSafe Systems is only applicable to operator enclosures meeting this requirement.

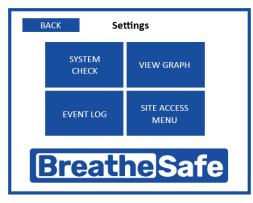


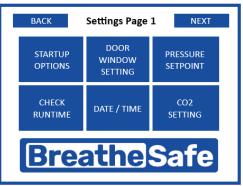
Breat				
AIR CONDITIONING FAM			PEED TO CIRCU	LATE AIR &
MACHINE SN:			E CONTROLLER SN	1
DATE INSTALLED:		MACHINE HOU	RS:	
AUTO PRE-SET PRESSURE (Pa)		MAX CABIN PF	ESSURE (Pa):	
NOTES (FILTER PART NUMBERS	:			
1 2 3 4 5 6 7 8 9 1	0 11 12 13 14 15	16 17 18 19 20 2	1 22 23 24 25 26	27 28 29 3
JAN FEB MAR AP	R MAY JUN	JUL AUG	SEP OCT	NOV D
2023 2024	2025	2026	2027	202
Technical Suppor				

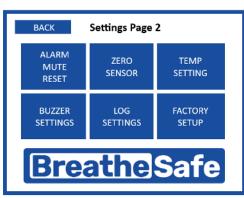


	BREATHESAFE SYSTEM TROUBLE SHOOT	ING GUIDE *TOUCH CONTROL		
FAULT	POSSIBLE CAUSE	SOLUTION		
*ERR error code	Poor sensor connection	Remove & refit pod connection cable		
	Corrupted coding	Access factory setup - default reset - pin 6759		
*Check filter alarm	Service hour timeout	Access Check Runtime menu - reset hours via 7597 code		
Temperature / CO2 error	Sensor not connected	Fit sensor or disable via site access CO2 & or temperature menu		
Pressuriser running at full speed/noisy	Filter blocked	Service filter		
	Door or window open	Ensure doors & windows securely shut		
	Cabin sealing capacity not adequate	Perform pressure test procedure & seal leak points as required		
	Sense pipe blocked	Ensure clear & not bent		
	Internal sensor damaged	Replace controller		
		**No need to change setpoint		
Filter blocking quickly	Defective cabin sealing	Perform pressure test procedure & seal leak points as required		
	Pre-cleaner failed	Check operation & replace if necessary		
Display blank	Poor power supply	Check mains supply fuse & correct voltage		
		Check voltage & 20AMP supply/connections at pin 1 @ monitor		
		Check earth continuity at controller pin 12		
	Failed controller	Replace monitor		
Controller showing 0.0 pressure	Fresh air filter blocked	Check filter condition & replace if required.		
Low pressure alarm	Door or window open	Ensure doors & windows securely shut		
	Cabin sealing capacity not adequate	Perform pressure test procedure & rectify cab sealing		
	Pressuriser not operating	Ensure correct voltage 12v or 24v to pressuriser motor pin A		
		Check 1.6V - 10V present at motor Pin C		
		Check 20A Supply fuse		
		Check earth continuity Pin B		
	Pressure sense tube blocked	Unplug at monitor & ensure clear flow to external of cabin		
		Ensure pressure tube fitted correct port A		
		**No need to change setpoint		
Pressuriser not working	Poor power supply	Check 20A mains fuse & correct voltage		
		Ensure adequate wire size & no voltage drop		
		Ensure correct voltage 12v or 24v to pressuriser motor pin A		
		Check 1.6V - 10V present at motor Pin C		
	Poor earth	Check earth continuity @ motor pin B		
	Motor faulty	Replace TL4M		
Access Codes:	Site Access: 7597	Factory Setup: 6759		

USER SETTINGS INSTRUCTIONS







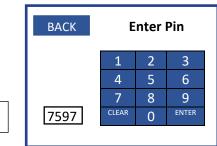
User Settings Instructions

ENTER SET UP MODE

Start-Up Screen > Main Screen > Settings Button > Settings Screen > Site Access Button > Insert Pin > Site Menu

To enter the Setup mode, press the SETTING button.

Then enter SITE ACCESS MENU. Type in 4-number pin and press ENTER.



SET UP PARAMETERS

Placing the BreatheSafe 200027 unit into Setup mode allows the adjustment of the following parameters:

Insert Pin = 7597

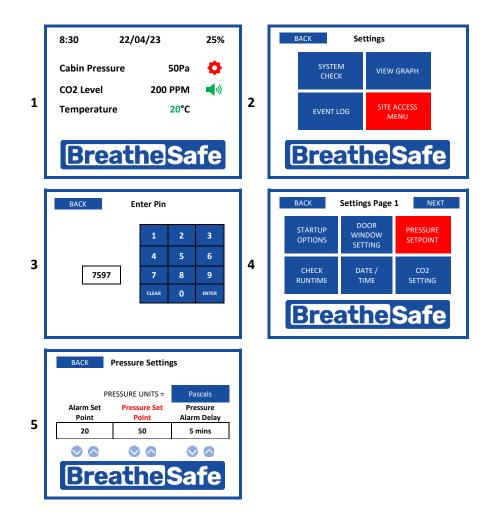
- Time (hours/minutes/seconds)
- Date (day/month/year)
- Pressure alarm setpoint
- Preferred cabin pressure
- Alarm delay/ intervals of alarm
- Calibration and system settings
- Resetting of the data logging
- Service reminders interval gap
- Reset current runtime between services
- CO2 settings and alarms

Breathe Safe

PRESSURE SETPOINT

The pressure setpoint changes the pressure that the cabin will be maintained. INPRESS TS maintains the pre-set pressure within the cabin compared to outside.

Enter Setup mode and select ADJUST SETPOINT button. Then, use the onscreen UP and DOWN buttons to change the corresponding fields.

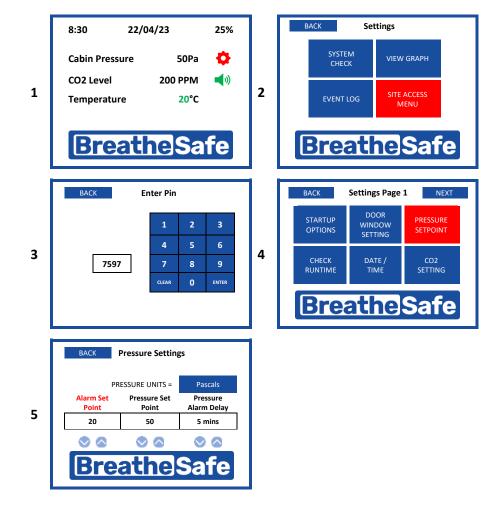


PRESSURE ALARM SETTING

USER SETTINGS INSTRUCTIONS

The mining industry benchmark for cabin pressure is 50 pascals and low-pressure is set at 20 pascals.

After a delay the alarm will activate if cabin pressure remains below the pre-set value. Enter Setup mode and select ADJUST SETPOINT button. Then, use the onscreen UP and DOWN buttons to change the corresponding fields.

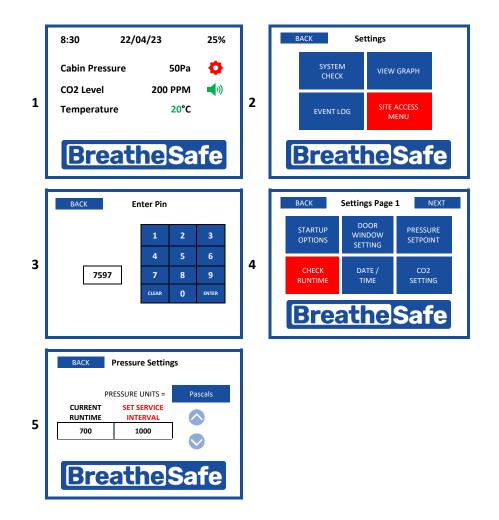


Breathe Safe

SERVICE INTERVAL

Use the onscreen UP and DOWN buttons to change the service interval setpoint.

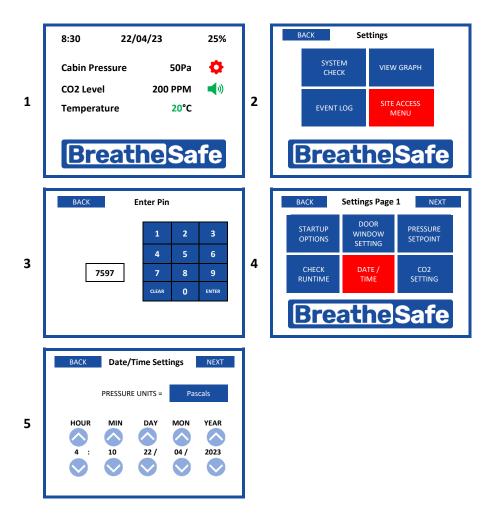
To reset the current runtime to zero, press the RESET CURRENT RUNTIME button and enter the site access pin.



DATE & TIME SETTINGS

USER SETTINGS INSTRUCTIONS

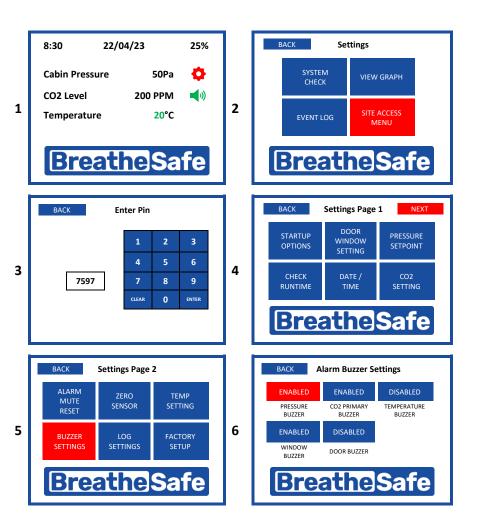
Change the recorded date displayed and measured by the INPRESS TS.





PRESSURE ALARM BUZZER SETTING

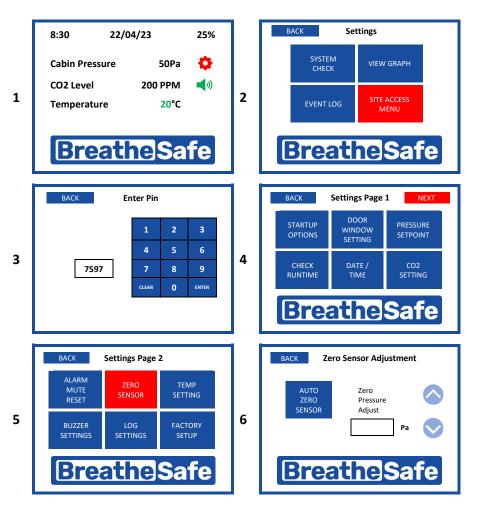
To disable the buzzer, toggle through to the ENABLED and DISABLED buttons.



CALIBRATE ZERO SENSOR

ALARM BUZZER SETTINGS

Over long runtime, the 200027 may need recalibration. This screen allows the sensor to be recalibrated if more than 5 Pascals are out. To recalibrate, open windows and doors, turn off air conditioning, and any other device that may alter cabin pressure. Then, press the AUTO ZERO SENSOR button and leave the cabin while measuring. This process will reset the Zero Pressure.







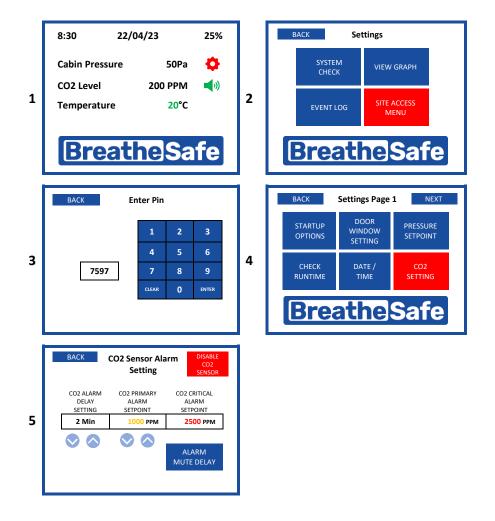
CO2 MODULE ENABLE/DISABLE

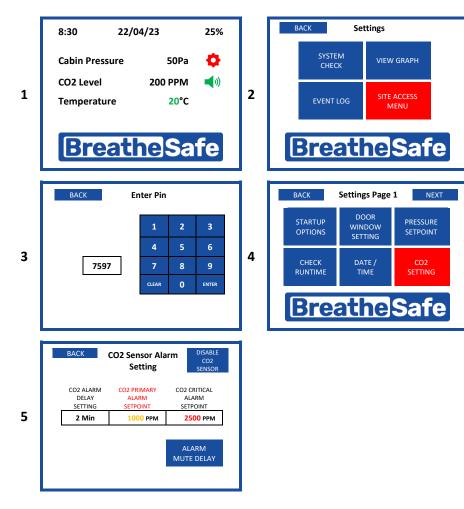
Enable or disable to CO2 module used for measuring CO2 levels within the cabin.

CO2 PRIMARY ALARM POINT

CO2 SETTINGS

The first alarm will sound when CO2 levels inside the enclosure reach this point.

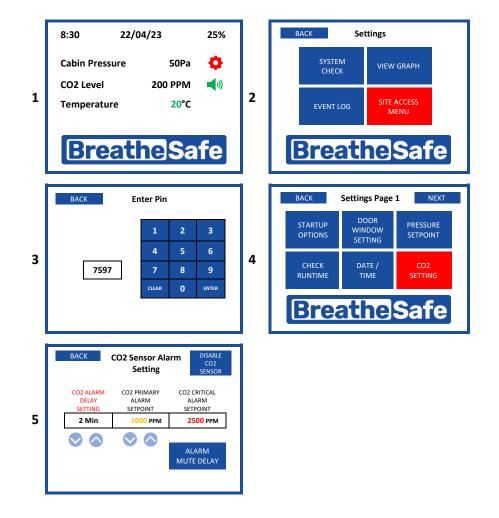






CO2 ALARM DELAY

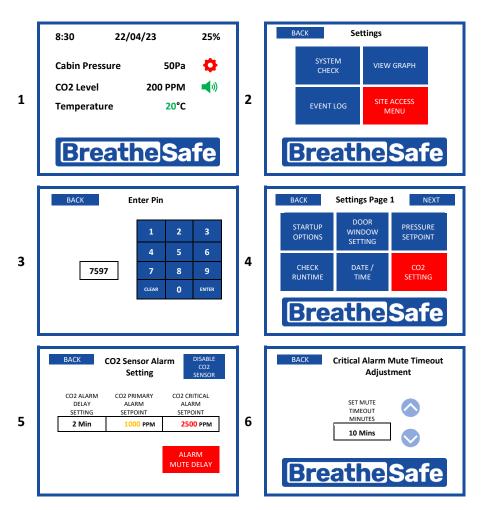
After CO2 (concentration in ppm) within the cabin reaches the 1000 ppm setpoint, the alarm will sound after this designated amount of time. The Alarm Delay adjusts the time between the INPRESS TS measuring CO2 concentration and sounding the alarm. Use the onscreen ADJUST buttons to change the corresponding fields. For example, press to toggle through Disabled / 1 - 10 minutes.



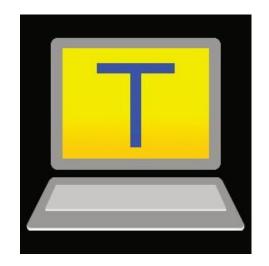
CO2 CRITICAL ALARM MUTE RESET

CO2 SETTINGS

The critical alarm is set at 2500 PPM and cannot be changed. The mute delay, however, can be configured.



Data Download – Setting up RS232 Connection



OTCP/IP	Host:		-			
		History				
	Service:	- Telnet	TCP	portit: 23	23	
		S5H	55H vers	on: SSH2		
		other	IP version: AUTO		- 10	
* Serial	Port:		dard Serial o dard Serial o		and the second se	
	OK	COM5: Stan COM6: Stan	dard Serial o			
		COM7: Stan COM8: Stan COM8: Stan COM10: Sta COM10: Sta COM10: Sta COM15: Sta COM15: Sta COM15: Sta COM10: Sta COM19: Sta COM19: Sta COM19: Sta	dard Serial o dard Serial o dard Serial o ndard Serial ndard Serial ndard Serial ndard Serial ndard Serial ndard Serial ndard Serial ndard Serial ndard Serial	ver Bluetoot wer Bluetoot over Bluetoot over Bluetoo over Bluetoo over Bluetoo over Bluetoo over Bluetoo over Bluetoo over Bluetoo over Bluetoo over Bluetoo	h link (C h link (C) h link (C) h link (C)	
		COM7: Stan COM8: Stan COM8: Stan COM19: Sta COM12: Sta COM12: Sta COM12: Sta COM15: Sta COM15: Sta COM15: Sta COM17: Sta COM17: Sta COM19: Sta COM19: Sta COM19: Sta	dard Serial o dard Serial o ndard Serial o ndard Serial ndard Serial	ver Bluetoot ver Bluetoot over Bluetoo over Bluetoo	h link (C h link (C h link (C th link (C th link (C th link (th link (
		COM7: Stan COM8: Stan COM8: Stan COM10: Sta COM10: Sta COM12: Sta COM13: Sta COM13: Sta COM15: Sta COM15: Sta COM17: Sta COM19: Sta COM19: Sta COM19: Sta COM23: Sta COM23: Sta COM23: Sta	dard Serial o dard Serial o ndard Serial ndard Serial Serial Serial Serial Serial ndard Serial	ver Bluetoot ver Bluetoot over Bluetoot over Bluetoo over Bluetoo over Bluetoo over Bluetoo over Bluetoo over Bluetoo over Bluetoo (COM23) over Bluetoo over Bluetoo	th link (C th link (C th link (C th link (C th link (C th link (th link (
		COM7: Stan COM8: Stan COM8: Stan COM10: Sta COM10: Sta COM12: Sta COM12: Sta COM15: Sta COM15: Sta COM15: Sta COM19: Sta COM19: Sta COM19: Sta COM19: Sta COM19: Sta COM20: Sta COM20: Sta COM20: Sta	dard Serial o dard Serial o ndard Serial o ndard Serial ndard Serial ndard Serial ndard Serial ndard Serial ndard Serial ndard Serial ndard Serial ndard Serial ndard Serial Serial Port	ver Bluetoot wer Bluetoot over Bluetoo over Bluetoo	th link (C th link (C th link (C th link (C th link (C th link (th link (

1 Plug the RS232/USB adaptor into a free USB port on your computer

2 Open up TeraTerm software.

(*TeraTerm* is an open-source software tool and easily accessible via online search)

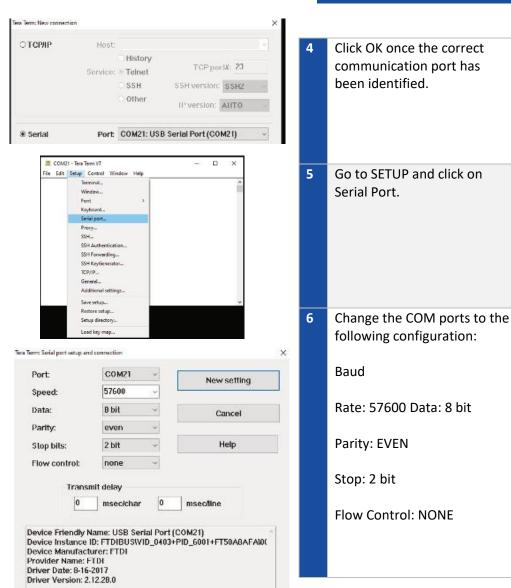
Use the following settings in TeraTerm: Serial and choose the correct port connection

Hint:

3

Click on the COMxx Port with the "USB serial Port" connection from the dropdown menu.

Example: COM 21 This connection may be different on your computer.



DATA DOWNLOAD

Breathe Safe Part of ATTE Safe

Data Download – Setting up RS232 Connection

COM21 - Tera Term VT File Edit Setup Control Window Help Terminal... Window Font 3 Keyboard... Serial port. Proxy... SSH ... SSH Authentication... SSH Forwarding... SSH KeyGenerator... TCP/IP ... General... Additional settings. Save setup. Restore setup... Setup directory... Load key map.. Tile Told Help Save

If required, you may choose to save the COM port settings. Go to Settings and clock save the setup.

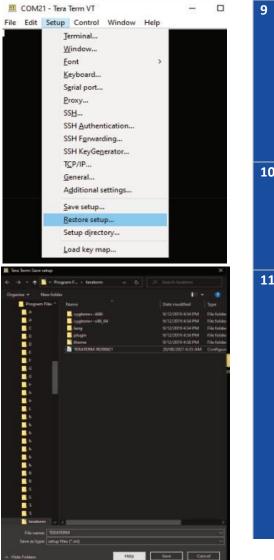
7

8

Hint: From the drop-down menu, click on the Save Setup.

Name the file and save it.

The next time a download is required, you may restore the setup, and the required COM PORT settings will be loaded, ready to download the data file from the 200027 unit.



DATA DOWNLOAD

9	From the drop-down menu, click on the Save setup.
10	Click Restore setup.
11	Choose the file name you have already saved.

Copy Alt+C Copy table Paste Alt+V Paste <cr> Alt+R Clear suffer Cancel selection Select screen Select all</cr>	Copy Copy tabl Paste Paste< CR Clear scre Clear buff	py py table ste ste< CR>	Alt+C				
Copy table Paste Alt+V Paste< CR> Alt+R Clear screen Clear buffer Cancel selection Select screen Sel	Copy tabl Paste Paste< CR Clear scre Clear buff	py table ste ste< CR>	Alt+V				_
Paste Alt+V Paste< CR> Alt+R Clear screen Clear buffer Cancel selection ielect all Durget = Content/Open/	Paste Paste <cr Clear scre Clear buff</cr 	ste ste <cr></cr>	00000	_			
Paste< CR> Alt+R Clear screen Cancel selection Select screen Select all	Paste< CR Clear scre Clear buff	ste< CR>	00000	2 C			
Paste< CR> Alt+R Clear screen Cancel selection Select screen Select all	Paste< CR Clear scre Clear buff	ste< CR>	00000	,			
Clear screen Clear buffer Cancel selection Select screen Select all Division contemporter Bott	Clear scre Clear buff		AR+R				
Clear buffer Cancel selection ielect screen ielect all	Clear buff	ar screen		5			
Cancel selection ielect screen ielect all manual contemporter Bar							
ielect screen ielect all manual content Markov	Cancel se	ar buffer					
ielect screen ielect all manual content Markov		ncel selection		_			
ielect all	Salart ret			_			
	Select all	2014/18/04/201					
:01 01.8 0001 0050 20							
-Tiera Term VT — — — X			1 20 1 20 1 20		-		×
Setup Control Window Help			Window	Help			
	Copy			1			^
opy table	Copy table	y table					
este Alt+V	Peste	te	AR+V				
	Paste <cr></cr>	-	1000				
lear screen							
lear buffer	Clear buffe	er butter					
ancel selection	Cancel sel	cel selection					
elect screen	Select scre						
	Select all	ect screen					
elect all	12-26 02 5 0	ect all	30				
elect all 25 07.5 0010 0150 20 23 07.5 0010 0150 20 23 07.5 0010 0150 20 23 07.5 0010 0150 20 23 07.5 0010 050 20 24 07.5 0010 050 20	632:28 07.5 0 632:29 07.5 0 632:30 07.5 0	ect all 07.5 0001 0050 07.5 0000 0050 07.5 0000 0050 07.5 0001 0050 07.5 0001 0050	20 20 20				~
elect all 25 07: 5 0081 0150 20 25 07: 5 0010 0150 20 25 07: 5 0010 0150 20 27 07: 5 0010 0150 20 28 07: 5 0011 050 20 A B C D E F	432:26 07.5 0 132:27 07.5 0 132:28 07.5 0 132:29 07.5 0 132:29 07.5 0 132:20 07.5 0	ect all 07.5 0001 0050 07.5 0000 0050 07.5 0000 0050 07.5 0001 0050 07.5 0001 0050	c c				~
elect all 25 07:5 1082 0150 20 25 07:5 1082 0150 20 25 07:5 0101 0150 20 25 07:5 0101 0150 20 25 07:5 0101 0150 20 A 8 C D E F MOTOR CABIN CABIN CABIN D	632:28 07.5 0 632:29 07.5 0 632:30 07.5 0	ect all 07.5 0001 0050 07.5 0000 0050 07.5 0000 0050 07.5 0001 0050 07.5 0001 0050	C MOTOR	CABIN	CABIN	CABIN LP	~
elect all Stores Upt DESU 20 A B C D E F MOTOR CABIN CAB	-132:28 07.5 0 1:32:29 07.5 0 1:32:30 07.5 0 A	ett all 07.5 0001 0050 07.5 0001 0050 07.5 0001 0050 07.5 0001 0050 07.5 0001 0050 07.5 0001 0050 0	C MOTOR (VOLT)	CABIN PRESSURE	CABIN PRESET	CABIN LP ALARM	×
elect all 25 D7-5 UDI 050 20 25 D7-5 UDI 050 20 25 UT-5 UDI 050 20 25 UT-5 UDI 150 21 25 UT-5 UDI 150 21 25 UT-5 UDI 150 21 26 UT-5 UDI 150 21 26 UT-5 UDI 150 21 26 UT-5 UDI 150 21 27 UT-5 UDI 150 21 28 UT-5 UDI 150 20 28 UT-5 UDI 150 20 29 UT-5 UDI 150 20 20 UT-5 UT-5 UDI 150 20 20 UT-5 UT-5 UDI 150 20 20 UT-5 UT-5 UT-5 UT-5 UT-5 UT-5 UT-5 UT-5	A A A TE 107-5 0 132:20 07-5 0 A TE 1	ect all 07.5 0001 0050 07.5 0001 0050	C MOTOR (VOLT) OUTPUT	CABIN PRESSURE PA	CABIN PRESET PA	CABIN LP ALARM PA	~
elect all 25 07:5 0010 0150 20 25 07:5 0010 0150 20 25 07:5 0010 0150 20 25 07:5 0010 0150 20 25 07:5 0010 0150 20 A B C C C C C C C C C C C C C C C C C C	-132:28 07.5 0 1:32:29 07.5 0 1:32:30 07.5 0 A	ect all 07.5 0011 0150 07.5 0011 0150 07.5 0011 0150 07.5 0011 0150 07.5 0011 0150 07.5 0011 0150 07.5 0011 0150 17.5 0010 17.5 0000 17.5 0	C MOTOR (VOLT) OUTPUT 7.5	CABIN PRESSURE PA 2	CABIN PRESET PA 50	CABIN LP ALARM PA 20	~
elect all 25 07:5 0011 0150 20 25 07:5 0011 0150 20 25 07:5 0011 0150 20 25 07:5 0011 0150 20 25 07:5 0011 0150 20 A B C D E F ALARM CABIN CABIN CABIN CABIN PA 100/0017 PRESSURE PRESET PALSAN 00/0017 9:31:22 7.5 2 50 20 00/2021 9:31:23 7.5 1 50 20	A A A A TE 20/08/2021	ect all 07.5 00141 0150 07.5 00141 0150 07.5 00141 0150 07.5 00141 0150 07.5 00141 0150 07.5 00141 0150 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	C MOTOR (VOLT) OUTPUT 7.5 3 7.5	CABIN PRESSURE PA 2 1	CABIN PRESET PA 50	CABIN LP ALARM PA 20 20	~
elect all 25 07-5 0012 0150 20 25 07-5 0012 0150 20 25 07-5 0012 0150 20 35 07-5 0012 0150 20 35 07-5 0012 0150 20 A	A 132:230 07.5 0 132:30 07.5 0 A A TE 1 20/08/2021 20/08/2021	ect all 07.5 0010 0050 07.5 0010 0050 07.5 0010 0050 0.5 0000 0.5 00000 0.5 00000 0.5 0000000 0.5 00000000000000000000000000000000000	C MOTOR (VOLT) OUTPUT 7.5 7.5 7.5 7.5	CABIN PRESSURE PA 2 1 432	CABIN PRESET PA 50 50 50	CABIN LP ALARM PA 20 20 20	~
elect all 25 07-5 0011 0150 20 25 07-5 0011 0150 20 25 07-5 0011 0150 20 25 07-5 0011 0150 20 A B C D E F A B C ABIN CABIN CABIN PRESET TIME OUTPUT PA PA PA PA 08/2021 9:31:22 7.5 2 50 20 08/2021 9:31:23 7.5 1 50 20 08/2021 9:31:25 6.4 480 50 20 08/2021 9:31:25 6.4 480 50 20	A 132:20 07.5 0 A A 20/08/2021 20/08/2021 20/08/2021 20/08/2021	ect all 17,5 000 0150 17,5 000 0150 17,5 000 0150 17,5 000 0150 17,5 000 0150 10,5 000 0150 10,5 0000 10,5 00000 10,5 00000 10,5 0000 10,5 0000	C MOTOR (VOLT) OUTPUT 7.5 7.5 7.5 7.5 6.4	CABIN PRESSURE PA 2 1 432 480 186	CABIN PRESET PA 50 50 50 50 50 50	CABIN LP ALARM PA 20 20 20 20	~
elect all 25 07-5 0012 0150 20 25 07-5 0012 0150 20 25 07-5 0012 0150 20 35 07-5 0012 0150 20 35 07-5 0012 0150 20 35 07-5 0012 0150 20 4	A 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021	ict all 07,5 00107 0050 07,5 0010 0050 07,5 0010 0020 0,5 0011 0020 0,5 0010 000 0,5 0000 0,5 0000 0,5 000 0,5 000 0,5 0000 0,5 0000 0,5 0000 0,5	C MOTOR (VOLT) OUTPUT 7.5 7.5 7.5 7.5 6.4 5.9 5.8	CABIN PRESSURE PA 2 1 432 480 186 112	CABIN PRESET PA 50 50 50 50 50 50 50 50 50 50	CABIN LP ALARM PA 20 20 20 20 20 20 20 20	~
A B C D E F 23: 07.5 0010 0580 20 23: 07.5 0010 0580 20 23: 07.5 0010 0580 20 23: 07.5 0010 0580 20 A B C D E F F A B CABIN PRESSURE PA CABIN PRESSURE PRESSURE PA CABIN PRESSURE PRESSURE PRESSURE PRESSURE PA CABIN PRESSURE PRESSUR	A 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021	ict all 17,5 0010 0150 17,5 0010 0150 17,5 0010 0150 17,5 0010 0150 17,5 0010 0150 10,5 0010 10,5 0010 10,5 0010 10,5 0010 10,5 0010 10,5 0010 10,5 0010 10,5 000 10,5 0000 10,5 000 10,5 0000 10,5 000 10,5 0000 10,5 0000 10,5 000	C MOTOR (VOLT) OUTPUT 2 7.5 7.5 7.5 7.5 7.5 6.6.4 5 5.9 5 5.8 3 5.5	CABIN PRESSURE PA 2 1 432 480 186 112 94	CABIN PRESET PA 50 50 50 50 50 50 50 50 50 50 50	CABIN LP ALARM PA 20 20 20 20 20 20 20 20 20 20	
elect all 25 07-5 0011 0150 20 25 07-5 0011 0150 20 25 07-5 0011 0150 20 25 07-5 0011 0150 20 25 07-5 0011 0150 20 A 0 C D E F ALARM PA A A A A A A A A A A A A A A A A A A	A 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021	International and a second sec	C MOTOR (VOLT) OUTPUT 2 7.5 7.5 7.5 7.5 6 6.4 5.5 5 5.5 6.1	CABIN PRESSURE PA 2 1 432 480 186 112 94 444	CABIN PRESET PA 50 50 50 50 50 50 50 50 50 50	CABIN LP ALARM PA 20 20 20 20 20 20 20 20 20 20 20	~
elect all 25 U7:5 U012 U580 20 27 U7:5 U012 U580 20 28 U7:5 U012 U580 20 29 U7:5 U012 U580 20 20 U7:5 U12 U580 20 20 U7:5 U7:5 U12 U580 20 20 U7:5 U7:5 U7:5 U7:5 U7:5 U7:5 U7:5 U7:5	A 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021	Internal Control Official Control Offici	C MOTOR (VOL1) OUTPUT 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	CABIN PRESSURE PA 2 1 432 480 186 112 94 44 44	CABIN PRESET PA 50 50 50 50 50 50 50 50 50 50 50 50 50	CABIN LP ALARM PA 20 20 20 20 20 20 20 20 20 20 20	~
A 0 C D E F 23: U7.5: 0012 UFS0 20 23: U7.5: 0012 UFS0 20 20; 07.5: 0012 UFS0 20 20;	A 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021	ect all 107,5 00107 0150 107,5 00107 0150 107,5 00107 0150 107,5 00107 0150 107,5 0010 0150 107,5 0010 107,5 0010 107,5 0010 107,5 0010 107,5 0010 107,5 0010 107,5 000 107,5 0000 107,5 00	C MOTOR (VOLT) OUTPUT 7.5 7.5 7.5 7.5 6.4 5.9 5.8 5.5 6.1 5.5 5.2	CABIN PRESSURE PA 2 1 432 480 186 1122 94 444 106 183	CABIN PRESET PA 50 50 50 50 50 50 50 50 50 50 50 50 50	CABIN LP ALARM PA 20 20 20 20 20 20 20 20 20 20 20 20 20	~
Beet all 20 UF: 5 UBIE UFS0 20 20 UFS0 20 UFS0 20 20 UFS0	A 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021	International and a second sec	C MOTOR (VOL1) OUTPUT 7.5 7.5 7.5 7.5 7.5 7.5 6.4 5.5 8 5.5 6.1 0 5.6 6.1 0 5.6 6.5 2 2 4.9	CABIN PRESSURE PA 2 1 432 486 186 112 94 444 440 6 183 204	CABIN PRESET PA 500 500 500 500 500 500 500 500 500 50	CABIN IP ALARM PA 20 20 20 20 20 20 20 20 20 20 20 20 20	~
elect all 25 UFS UDIS UFSU 20 27 UFS. 0010 UFSU 20 28 UFS. 0101 UFSU 20 29 UFS. 0101 UFSU 20 29 UFS. 0101 UFSU 20 20 UFSU 20 UFSU 20 20 UF	A 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021	International and a second sec	C MOTOR (VOLT) OUTPUT 2 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	CABIN PRESSURE PA 2 1 1 432 480 186 182 94 44 106 183 294 44 106 183 204 179	CABIN PRESET PA 500 500 500 500 500 500 500 500 500 50	CABIN IP ALARM PA 20 20 20 20 20 20 20 20 20 20 20 20 20	~
elect all 25 07:5 0012 0050 20 27 07:5 0012 0050 20 27 07:5 0012 0050 20 28 07:5 0012 0050 20 20 07:5 0012 0050 20 20 07:5 0012 0050 20 20 07:5 0012 0050 20 CABIN (VOLT) CABIN PRESSURE PA CABIN ALARM PA 1000 00170000 CABIN PRESSURE PA CABIN PA CABIN PA 00170170 CABIN PRESSURE PA CABIN PA CABIN PA 1000 CABIN PRESSURE PA CABIN PA CABIN PA 00170170 CABIN PRESSURE PA CABIN PRESSURE PA CABIN PRESSURE PA CABIN PRESSURE PA CABIN PA 006/2021 9:31:24 CABIN PA CABIN PRESSURE PRESSURE PA CABIN PRESSURE PRESSURE PA CABIN PRESSURE PRESSURE PRESSURE PA CABIN PRESSURE PRESSURE PRESSURE PRESSURE PA CABIN PRESSURE PRESSURE PRESSURE PRESSURE PRESSURE PRESSURE PRESSURE PRESSURE PRESSURE PRESSURE PRESSURE PRESSURE PRESSURE PRESSURE PRESSURE PRESSURE PRESSURE	A 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021	International and a second sec	C MOTOR (VOL1) OUTPUT 7.5 7.5 7.5 6.4 5.9 7.5 6.4 5.9 7.5 8 6.1 5.5 6.1 5.5 2 6.1 5.5 2 4.6 9 4.6 6 1 5.2 2 4.9	CABIN PRESSURE PA 2 1 4322 480 186 112 99 444 106 183 204 177 185	CABIN PRESET PA 500 500 500 500 500 500 500 500 500 50	CABIN IP ALARM PA 20 20 20 20 20 20 20 20 20 20 20 20 20	>
Betet all 20 UF, 5 UBL UFR 20 20	A 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021	ict all D7:5 00101 0550 07:5 00101 0550 07:5 00101 0550 07:5 00101 0550 07:5 00101 0550 10:5 00101 0550 10:5 0010 0550 10:5 0010 0550 10:0 051 0520 10:0 05000 10:0 05000	C MOTOR (VOLT) OUTPUT 2 7.5 7.5 7.5 7.5 7.5 7.5 7.5 6.4 4 3.5,5 6.1 2 5.6 6.5,2 2 4.9 4.6 4.3 4.3 4.4 3 4.4 3 4.4 3 4.4 3 4.4 3 4.4 3 4.4 3 4.4 3 4.4 3 4.4 3 4.5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	CABIN PRESSURE PA 2 1 432 460 112 94 460 112 94 444 1000 1183 204 175 1685 263	CABIN PRESET PA 500 500 500 500 500 500 500 50	CABIN IP ALARM PA 20 20 20 20 20 20 20 20 20 20 20 20 20	>
elect all 25 D7:5 D013 D150 D13 25 D7:5 D013 D150 D13 25 D7:5 D013 D150 D13 25 D7:5 D131 D150 D13 25 D7:5 D131 D150 D13 26 D E F Imme OUTOR CABIN CABIN CABIN 08/2021 9:31:22 7.5 2 S0 20 08/2021 9:31:23 7.5 1 S0 20 08/2021 9:31:24 7 432 S0 20 08/2021 9:31:25 6.4 480 S0 20 08/2021 9:31:27 5.8 112 S0 20 08/2021 9:31:27 5.8 112 S0 20 08/2021 9:31:30 5.6 106 50 20 08/2021 9:31:31 5.2 </td <td>A 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021</td> <td>International and a second sec</td> <td>C MOTOR (VOLT) OUTPUT 7.5 7.5 7.5 7.5 7.5 6.4 5.9 8 5.8 5.5 6.1 5.6 5.2 4.9 4.4 9 4.4 3 4 4.3 3.5</td> <td>CABIN PRESSURE PA 2 1 1 432 480 186 112 94 440 106 183 204 179 185 205 205 205 205 205 205 205 205 205 20</td> <td>CABIN PRESET PA 500 500 500 500 500 500 500 500 500 50</td> <td>CABIN IP ALARM PA 20 20 20 20 20 20 20 20 20 20 20 20 20</td> <td>~</td>	A 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021	International and a second sec	C MOTOR (VOLT) OUTPUT 7.5 7.5 7.5 7.5 7.5 6.4 5.9 8 5.8 5.5 6.1 5.6 5.2 4.9 4.4 9 4.4 3 4 4.3 3.5	CABIN PRESSURE PA 2 1 1 432 480 186 112 94 440 106 183 204 179 185 205 205 205 205 205 205 205 205 205 20	CABIN PRESET PA 500 500 500 500 500 500 500 500 500 50	CABIN IP ALARM PA 20 20 20 20 20 20 20 20 20 20 20 20 20	~
A B C D E F 25 07.5 0012 0150 20 </td <td>A 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021</td> <td>International and a second sec</td> <td>C MOTOR (VOLT) OUTPUT 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5</td> <td>CABIN PRESSURE PA 2 1 432 443 448 112 344 446 1183 204 1066 1183 204 127 1655 2055</td> <td>CABIN PRESET PA 500 500 500 500 500 500 500 500 500 50</td> <td>CABIN IP ALARM PA 20 20 20 20 20 20 20 20 20 20 20 20 20</td> <td></td>	A 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021	International and a second sec	C MOTOR (VOLT) OUTPUT 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	CABIN PRESSURE PA 2 1 432 443 448 112 344 446 1183 204 1066 1183 204 127 1655 2055	CABIN PRESET PA 500 500 500 500 500 500 500 500 500 50	CABIN IP ALARM PA 20 20 20 20 20 20 20 20 20 20 20 20 20	
Betet all 28 UF: 5 UBIL UFR) 20 29 UF: 5 UBIL UFR) 20 20 UFF: 5 UBIL UFR) 20 20 UFR) 20 20 UFF: 5 UBIL UFR) 20 20 UFR) 20 20 UFF: 5 UBIL UFR) 20 20 UFR) 20 20 20 UFR) 20 20 UFR) 20 2	A 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021	ict all D7-5 00101 0550 D7-5 0010 0550 D7-5 011 0500 D7-01 0510 0500 <td>C MOTOR (VOLT) OUTPUT 27.55 7.55 7.55 7.55 7.55 7.55 7.55 7.5</td> <td>САВІМ PRESSURE PA 2 1 432 468 112 94 442 106 133 204 165 205 205 205 205 205 205 205 20</td> <td>CABIN PRESET PA 2 500 500 500 500 500 500 500 500</td> <td>CABIN IP ALARM PA 200 200 200 200 200 200 200 200 200 20</td> <td></td>	C MOTOR (VOLT) OUTPUT 27.55 7.55 7.55 7.55 7.55 7.55 7.55 7.5	САВІМ PRESSURE PA 2 1 432 468 112 94 442 106 133 204 165 205 205 205 205 205 205 205 20	CABIN PRESET PA 2 500 500 500 500 500 500 500 500	CABIN IP ALARM PA 200 200 200 200 200 200 200 200 200 20	
A B C D E F 25 07.5 0011 0150 20 01.5 01.0 01	A 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021	International and a second sec	C MOTOR (VOLT) OUTPUT 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	САВІМ PRESSURE PA 2 1 432 442 442 106 183 204 444 106 183 204 179 185 265 265 261 247 247 247 247 247 247 247 247	CABIN PRESET PA 2 500 500 500 500 500 500 500 500	CABIN IP ALARM PA 200 200 200 200 200 200 200 200 200 20	
A B C D E F 25 07.5 0012 0150 20 </td <td>A 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021</td> <td>International and a second sec</td> <td>C MOTOR (VOLT) OUTPUT 2 7.5 2 7.5 2 7.5 2 7.5 2 7.5 3 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5</td> <td>CABIN PRESSURE PA 2 1 4 4 2 4 4 4 4 4 106 188 204 177 165 263 263 264 172 145 264 165 165 165 165 165 165 165 165</td> <td>CABIN PRESET PA 500 500 500 500 500 500 500 50</td> <td>CABIN IP ALARM PA 200 200 200 200 200 200 200 200 200 20</td> <td></td>	A 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021 20/08/2021	International and a second sec	C MOTOR (VOLT) OUTPUT 2 7.5 2 7.5 2 7.5 2 7.5 2 7.5 3 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	CABIN PRESSURE PA 2 1 4 4 2 4 4 4 4 4 106 188 204 177 165 263 263 264 172 145 264 165 165 165 165 165 165 165 165	CABIN PRESET PA 500 500 500 500 500 500 500 50	CABIN IP ALARM PA 200 200 200 200 200 200 200 200 200 20	
Betet all 28 07:5 00Et 0050 all 20 7:5 00Et 0050 all 20 7:5 00Et 0050 all Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2" 20 7:5 00Et 0050 all Colspan="2">Colspan="2" TIME Colspan="2" TOTOR CABIN CABIN IP PRESET PRESET TIME CABIN IP TIME CABIN IP TIME CABIN IP PRESET CABIN IP TIME CABIN IP TIME CABIN IP PRESET CABIN IP TIME CABIN IP PRESET CABIN IP PRESET CABIN IP OC CO CABIN IP PRESET CABIN IP PRESET							

Data Download – Setting up RS232 Connection

From the drop-down menu, 12 click on the Edit menu function. Press "Select All". 13 Select "Copy table". 14 Open a blank excel 15 document and click on the page. Then, right-click to paste the copied table. 16 Fields are: Date, time, motor (volts) output, cabin pressure (Pa), cabin pressure pre-set (Pa), low cabin pressure alarm (Pa).

Excel Data Instructions – Unformatted

DATA DOWNLOAD

Open an Excel sheet and select the first cell A-1. Next, press and hold down the CTRL button on your keyboard and then press the letter V on the keyboard.

This procedure will paste the copied data onto that Excel sheet. Once that data has been pasted onto the Excel sheet, click on 'DATA' on the pull-down menu, followed by 'Text to Columns'. Next, select 'Delimited' on the newly opened window and click on Next.

Only select the 'Comma' button in the next window and then click 'Finish'. Then, the Excel fields will update such that each piece of data is placed in the correct columns.

The data is now ready for archiving.

Data Logging Formats

BU No: xxxxxx (the device number unique to each unit and used for identification - format = 000000)

Time: [09:25]

Date: [25/07/12]

Pressure: 32 (Pascals) as an example.

	Alarm Type				
0	= No alarm				
1	= Low-pressure alarm				
2	= Window open				
3	= Door open				

INPRESS TL WARRANTY

Express Warranty

All BreatheSafe products carry a warranty against defects in materials or workmanship, provided the defects are not from factors outside of BreatheSafe's control (including neglect, lack of maintenance, improper installation or operation, unauthorized servicing repair, etc.). BreatheSafe will replace goods defected in material or workmanship at our Queensland factory or designated branch*. All parts deemed as failed or faulty must be returned to BreatheSafe for evaluation unless otherwise stated in writing.

Note- Systems must be installed and commissioned as per BreatheSafe installation and commissioning instructions. Once commissioned, the online commissioning sheet must be filled in, extending the components warranty as below. In addition, the system must be serviced and maintained correctly and by trained and qualified personnel. This requisite includes BreatheSafe technicians, qualified automotive air-conditioning technicians, or qualified auto electricians.

Warranty period – Standard

- 1 year or 10,000 hours (whichever occurs first).
- Controllers 1 year no extended warranty option.
- Warranty Period Extension when commissioning documents are registered online within 28 days of installation
- Extended warranty** only offered if commissioning maximum pressure test reaches at least 250Pa.
- Brushless motor fixed speed two years, or 10,000 hours (whichever occurs first).
- Variable speed brushless motor 15,000 hours, or 3 years** (whichever occurs first).

Must be supplied with a variable speed pressure controller, data download required for 3-year warranty option. Link to online Commissioning and Extended Warranty Registration form https://www.breathe-safe.com.au/commission/

What is not covered under Express Warranty?

- Failures are due to incorrect application.
- Damage resulting from neglect, misuse, lack of maintenance, improper installation, or operation, inappropriate or abnormal use, accidental or unauthorized servicing repair.
- Failures are due to parts not being sold or approved by BreatheSafe.
- Failures arising from any other cause that is not directly related to a defect in material or workmanship.

This Express Warranty is VOID if the product is altered, modified, or used in the manner it was not designed for, also including unauthorized repairs, or using maintenance and repair parts other than those supplied by BreatheSafe.

BreatheSafe responsibilities

If there is a defect in material or workmanship not caused by the excluded failures during the warranty period, BreatheSafe will either replace the defective goods at our Queensland factory, or designated branch. *

Alternatively, BreatheSafe may elect to provide new replacement parts, BreatheSafe approved repair parts or assembled components needed to repair the defect. BreatheSafe reserves the right to provide a refund of the purchase price in lieu of replacement or repair at BreatheSafe's discretion. The replacement or repaired product will be sent to you freight prepaid by the customer or made available for pick-up on site.

Users Responsibilities

The customer should ensure that the system is maintained according to BreatheSafe service requirements and only authorized parts must be used to service and maintain BreatheSafe systems. In the event of a suspected warranty claim, BreatheSafe should be contacted in the first instance to arrange the repair or to assist with diagnosis. Claims should be made within one week of the repair.

After contacting BreatheSafe, you may be required to deliver or send the parts to BreatheSafe's Queensland factory or designated branch. * Link to online Warranty claim form https://www.breathe-safe.com.au/warranty/

Exclusion and Limitations on Damages and Remedies

This warranty is provided in lieu of all other warranties, written or oral, whether expressed by affirmation, promise, description, drawing, model, or sample. To the extent allowed by law, all warranties other than this warranty, whether express or implied, including implied warranties of fitness for a particular purpose, are disclaimed. The maximum liability of BreatheSafe under this warranty shall not exceed the original purchase price of the product. Interference with the equipment by or abuse, or by operating the equipment at ambient temperatures or with electrical power characteristics outside the ranges indicated in our specification shall be excluded from this warranty, as shall consequential damages.

Excluded from any express warranty are costs incurred in relation to service outside our factory our designated service branch, including traveling time, waiting time, transport costs, mechanical and overtime payments required. As per Australian Consumer Law: You are entitled to choose a refund or replacement for major failures with goods. If a failure with the goods or service does not amount to a major failure, you are entitled to have the failure rectified in a reasonable time. If this is not done, you are entitled to a refund for the goods and to cancel the contract for the service and obtain a refund of any unused portion. You are also entitled to be compensated for any other reasonably foreseeable loss or damage from a failure in the goods or service.

*This express warranty gives you specific legal rights, and you may also have other rights that vary from country to country.