



HOW TO GATHER VESDA BASELINE DATA

Baseline data is the capturing of system design and performance requirements for fire detection and alarm systems. How to gather baseline data? Ideally at commissioning time, or when the pipes have been cleaned thoroughly

STEP 1

Connect USB converter and run Device manager to find if drivers are installed and what com port it is using.

STEP 2

Open VSC and Select Connection then **Manager**, select

Add VESDAnet Connection for VLP, VLS, Laser Compact

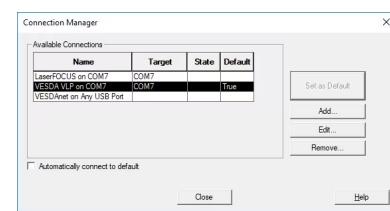
Select **VESDAnet**, Select Direct Serial Cables, Select Com Port (Use Device manager to find com port, USB serial converter must be connected and driver installed.), Name of Connection is shown “VESDAnet on COMX” and can be changed to “VESDA VLP”

Add VESDAtalk Connection for Laser Focus

Select **VESDAtalk**, Select Com Port (Use Device manager to find com port, USB serial converter must be connected and driver installed.), Name of connection is shown “LaserFOCUS on COM7” and can be changed

Add VESDAnet Connection for VEP, VES, VEA

Select **VESDAnet**, Select USB, Select Next.), Name of Connection is shown “VESDAnet on Any USB Port” and can be changed to “**VESDA VEP or VEU**”



CONNECTING TO A VESDA UNIT

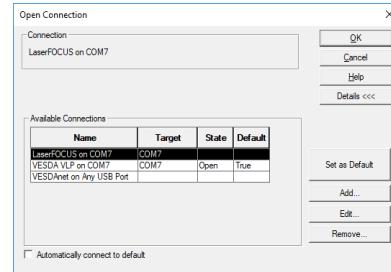
Connecting to the VLP with HLI

VLP, VLS and compact (VN) requires HLI with a VGA cable and a 9 pin serial cable. Connect to the VESDA via the USB converter. In VSC Select Connection, then Connect and View, if you have selected the VESDAnet on ComX as default it will appear as the connection option, if not, click on Details, select the required connection and click OK.



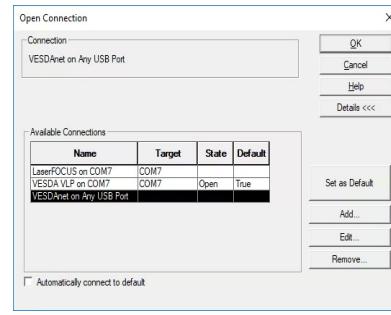
Connecting to the LaserFocus with a 9 pin serial cable (VESDA Talk)

Connecting directly to Laser Focus requires a 9 pin Null modem serial cable connected to the VESDA via the USB converter. In VSC select Connection (VESDA Talk), then Connect and View, if you have selected the VESDA Laser Focus on ComX as default it will appear as the connection option, if not, click on Details, select the required connection and click OK..

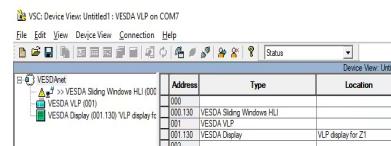


Connecting to the E series with USB Type-A to Type-B Cable

Connecting to VESDA-E VEP, VEU or VEA requires a USB Type-A to Type-B Cable. Connect to the VESDA via the USB socket in the VESDA unit. In VSC select Connection, then Connect and View, if you have selected the VESDAnet on any USB Port as default it will appear as the connection option, if not, click on Details, select the required connection and click OK.



NOTE: Windows usually defaults any new com ports baud rate to 9600, so you need to check the Device Manager, port settings of the USB/VESDA while its plugged in and change the Baud rate to 19200 if it is any different. Once connected, it will take a minute to find all VESDAs Connected to be ready to use



To log in Pres "Ctrl + L" or click on the login icon on the top menu bar



Login to VESDA with VSC as DST (Distributor)



The default passwords (as shipped from the factory) for the LaserPLUS, LaserSCANNER, and VESDA-E series LaserCOMPACT and LaserFOCUS are as follows:

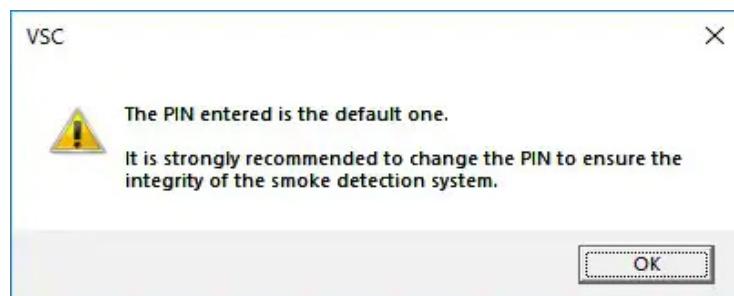
ADM = 1413

USR = 1111

DST =1451

ADM password for the standalone VLF is: 7213

DST password for the standalone VLF is: 7244

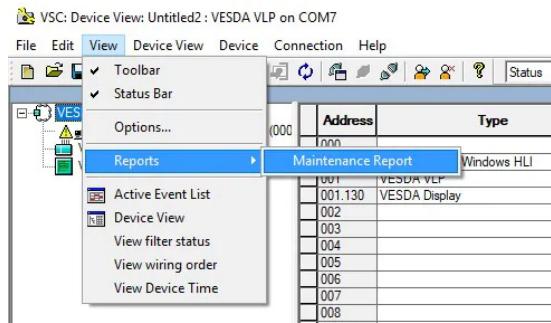


MAINTENANCE REPORT

Running a Maintenance is the same for any VESDAnet connected detector. Note this Maintenance report not available for a standalone LaserFocus.

On a LaserFocus a screenshot should be taken to display this information, Click on the **Detector** and select **Detailed Status** then Printscreen.

On any VESDANet connected detectors, you can highlight VESDANet, select **View**, select **Report** if it is greyed out, you did not select the VESDANet option. If the Maintenance report is greyed out, you are not connected to the VESDA see step 2.



Alarm Status		Summary Status		Detail Status		Version Info	
Field		Value					
Location	VESDA LaserFOCUS 250						
Device Status	Enabled						
Trouble Count	0						
Active Trouble Status	None						
Active Alarm Status	No Alarms						
Value	0.006 %/m						
Smoke reference level	0.000 %/m						
Smoke Thresholds	Day						
Alert (Current)	0.200 %/m						
Action (Current)	0.300 %/m						
Fire1 (Current)	0.500 %/m						
Fire2 (Current)	1.000 %/m						
Autolearn Smoke Active	Off						
AutoLearn Flow	Off						
Air Flow Normalizing	Off						
Active Test							
Show Faults	Off						
Current Air Flow	13.2 L/min						
Air flow (% of normalized)	101						
Filter	Present						
Filter life used (%)	0						
Filter life (days)	730						
Service Due Date	3/08/2022						
UTC Time	3/08/2020 4:02:45 AM						
Device Time	3/08/2020 4:02:45 AM						

The Maintenance report will appear, it will have the details of all detectors on that VESDAnet loop.

Select **Print** and **Print to PDF**, Important parameters are

- Filter %** - How much of filter life used
- Dust Count** - will assist in Predictive Maintenance (4,000,000 is max)
- Norm (Raw) Air Flow** - will assist in determining degradation of pipe conditions, (getting Dirty) Norm is the percentage of normal, that is when the system is running in normal operation conditions, Raw flow is the actual airflow. It should not change much, whereas the Norm percentage will change if the system is normalised in abnormal conditions.
- Fire 1 Day and Fire 1 Night** Indicated the sensitivity of the detection system. The rough guide is Multiply the number of hole in the pipework (all Pipes) x the Fire 1 setting.

Sample of multiple detectors on the same VESDAnet.

3/08/2020 9:35:45 AM (Date and time of last report : 3/08/2020 9:35:36 AM)								
Device Status	Type	Location	Address	Value	Flow 1 Norm (Raw)	Flow 2 Norm (Raw)	Flow 3 Norm (Raw)	Flow 4 Norm (Raw)
Normal	VESDA VLP		001	0.004 %/m	Not Used	107 (2919)	98 (2367)	Not Used
Normal	VESDA VLP	VESDA LaserFOCUS 250	002	0.007 %/m	101 (1322)	99 (25.0 L/min)	97 % (66.4 L/min)	Not Used
Normal	VESDA VLP		022	0.0016 %/m	Not Used	99 % (25.0 L/min)	97 % (66.4 L/min)	2.0 %

Airflow requirements

- VLF-250 requires an airflow between 12L/min to 24L/min. (18 Ideally)
- VLF-500 requires an airflow between 12L/min to 52L/min. (Ideal max 40)
- VLC requires an airflow between 20L/min to 80L/min. (Ideal Max 60)
- VLP/VLS requires 20L/min to 120L/min at the manifold. (~300 to 1300 raw value)

Examples:

F1 = 0.200 with 20 holes Sensitivity at the Hole is ~ 4%obs/Meter

F1 = 0.100 with 10 holes Sensitivity at the Hole is ~ 1%obs/Meter

F1 = 0.200 with 2 holes Sensitivity at the Hole is ~ 0.4%obs/Meter

Each hole dilutes the smoke as it travels down the Pipe

Device Status	Type	Location	Address	Value	Flow 1 Norm (Raw)	Flow 2 Norm (Raw)	Flow 3 Norm (Raw)	Flow 4 Norm (Raw)	Filter life used (%)	Dust Count	Service Due Date
Normal	VESDA VLP		001	0.006 %/m	Not Used	96 (2631)	98 (2436)	Not Used	0	258	20/01/2023
Type	Address	Alert (Day/All)	Action (Day/All)	Fire1/Fire2 (Day)	Fire1/Fire2 (Day)	Alert (Night)	Action (Night)	Fire1/Fire2 (Night)	Fire1/Fire2 (Night)		
VESDA VLP	001	0.200 %/m	0.300 %/m	0.500 %/m	1.000 %/m	0.100 %/m	0.200 %/m	0.400 %/m	0.800 %/m		

- VESDA-E requires 20L/min to 200L/min at the manifold.

Note: Check sample point pressures in Aspire less than 50Pa indicates not much suction pressure is left and flow faults are bound to occur. 2.0mm holes will tend to block quickly – Be Careful.

HOW TO SAVE VSC PROGRAM (CONFIGURATION)

Click on **File, Save**, the Name that appears for you is the Serial number and Detector type "150258 - VESDAnet.vcfg", do not delete this but add a location and date if Required "Tempe 030820 150258 - VESDAnet.vcfg"

HOW TO SAVE EVENT LOG FILE

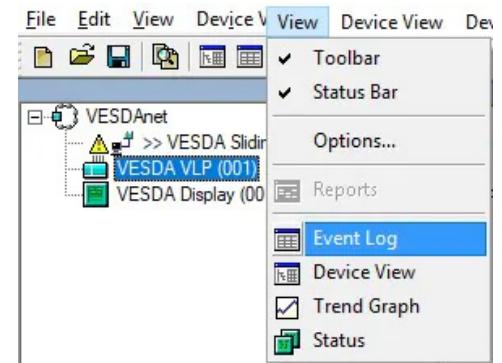
To save Event log Click File, Save as Default name will be "150258 - VESDA VLP.vevt" you may want to add Location and date e.g Tempe 030820 150258 - VESDA VLP.vevt

HOW TO PRINT HISTORY FILE

If the event log does not need interrogation, then print to PDF

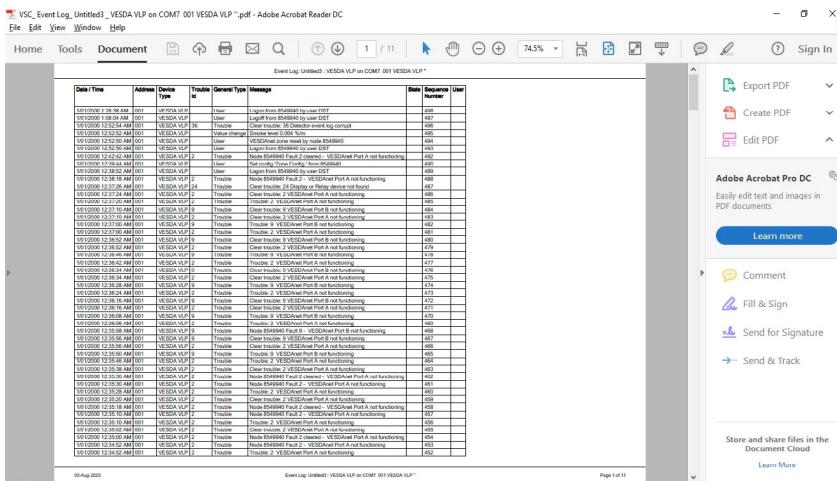
Click on the **Detector** that you want the history from.

Login if asked DST 1451



Select the range you wish to view or Tick All, in General Type, select the events you want to see.

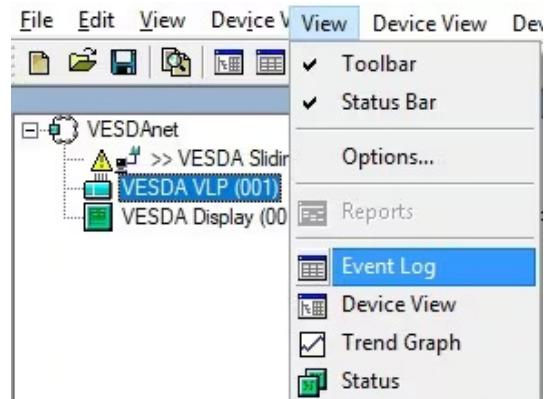
To print Event log Click File, Print, then Print to PDF and save log as Default name will be "VSC_Event_Log_Untitled3_VESDA VLP on COM7 001 VESDA VLP.pdf"



PRINT SMOKE GRAPH

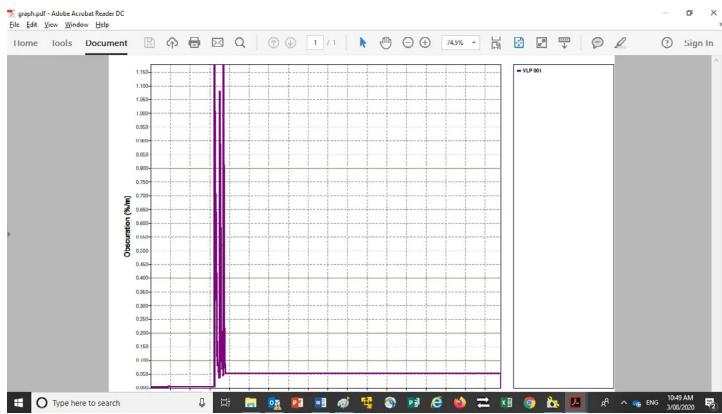
Click on the **Detector** that you want the history from.

Log in if asked DST 1451



Select **Properties** to graph Value is smoke levels the range you wish to view or Tick All. Note no differentiation is made between pipes on a VLP.

To save **Trend Graph** Click **File, Print**, then **Print to PDF** and save log as Detector Name, Location Date. No default name is added.



You can select the period you wish to view

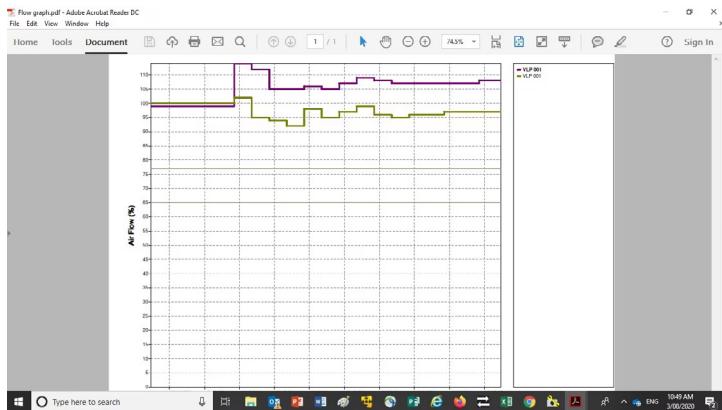
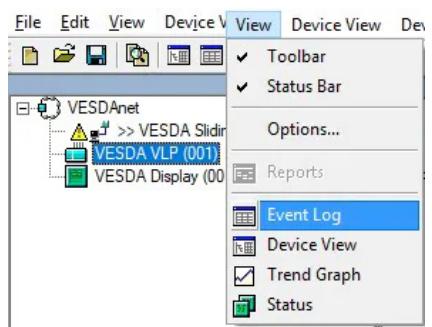
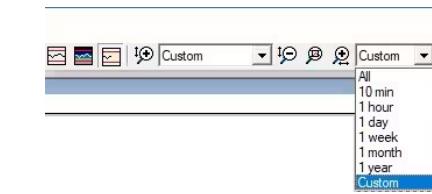
PRINT AIR FLOW GRAPH

Click on the **Detector** that you want the history from.

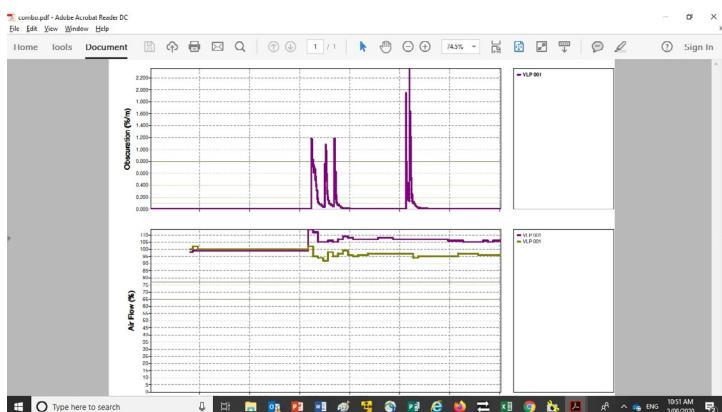
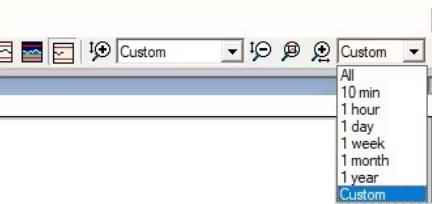
Log in if asked DST 1451

Select **Properties** to graph , Select the pipes you wish to graph, the range you wish to view or Tick All,

To save **Trend Graph** Click **File**, **Print**, then **Print to PDF** and save log as Detector Name, Location Date, No default name is added.

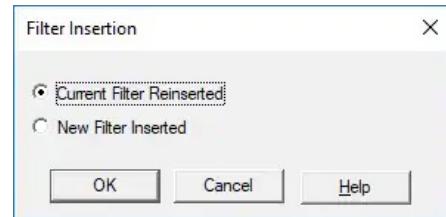


Or the graphs can be done together.



REPLACING A VLP FILTER

Remove filter using a small Phillip's Head driver, undo the screw and pull out the filter, when the filter is removed the aspirator will stop, once a new filter is inserted the aspirator should start again. Connect to the detector using VSC go to the detector select the Detector right click select Device and click on Filter Insertion, if it is a new filter select New Filter Inserted if not select Current Filter Reinserted. Once a new filter is inserted, Dust count, filter percentage used, and Filter life (days) will reset.



REPLACING A VEP FILTER

Open the access cove using a thin flat-bladed screwdriver and push to release cover. Remove the yellow filter, and aspirator will stop. Once the new filter is in place correctly the aspirator will restart, the filter has a chip on board, so no further action is required.

VLP/VLS FILTER COLOURS

Open the access cove using a thin flat-bladed screwdriver and push to release cover. Remove the yellow filter, and aspirator will stop. Once the new filter is in place correctly the aspirator will restart, the filter has a chip on board, so no further action is required.

To find out more information about how to gather VESDA baseline data and other system functionalities, please book your trainings at [My Honeywell Building University](#).

January 2020 Onward

December 2018

March 2014

August 2011

April 2008

April 2006

April 2004

April 2000

1997

For more information

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IS
WHAT
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