DustLog 8.0 Data Logging Software

SINTROL For Good Measure

Sintrol DustLog 8

Manual

Software Version 8.0.15XXXXXXXX



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1 INTRODUCTION

This manual describes how to install and use SINTROL's DustLog 8 application. Sintrol shall not be liable for any loss or damage whatsoever arising from use of any information or details therein, or omission or error in this manual, or any misuse of the application.

NOTE

The Application License is needed to use SINTROL's DustLog 8 application.

1.1 End User License Agreement (EULA)

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1.2 Recommended System Requirements

OS: Windows 7 or Windows 10

Processor: Intel i5 or above / AMD FX 4000 series or above

RAM: 4 gigabyte (GB)

Hard Disk: 7,2k rpm HDD or SSD (recommended)

Display: Full HD 1920x1080



1.3 Installation

Run the installation file (DustLog-8_0_15XXXXXX-installer.exe) and follow the Installation Wizard's instructions on the screen. The installation program creates a new program group in the start menu. Clicking on the DustLog 8 icon starts the program.



1.3.1 License types

In order the software to operate, a valid license file is needed. There are three different licensing categories available.

1. PC-computer locked license

This license type locks to a specific PC-computer and operates with all Sintrol products. The license is created based on the request made by the software itself after the installation.

2. Device locked license

This license type works with prelisted Sintrol products, but the software itself can be installed and run in as many PC-computers as required. Also, the actual license can be created before the installation for as long as the serial numbers of the devices are known.

3. Trial license

This license type is meant for testing. It will operate until the expiration date of the license. Using this license requires the PC to be able to connect to internet to acquire the validated date from Sintrol server on boot-up.

The license (and request) files can be acquired directly from Sintrol server via the internet or they can be save as a files from and into the program. For simplicity, using the internet connection is recommended.

1.3.2 Purchase code option

As each particular license needs to be approved by Sintrol personnel, it might create some uncomfortable delays in installation, thus making the customer service on site unnecessarily complicated.

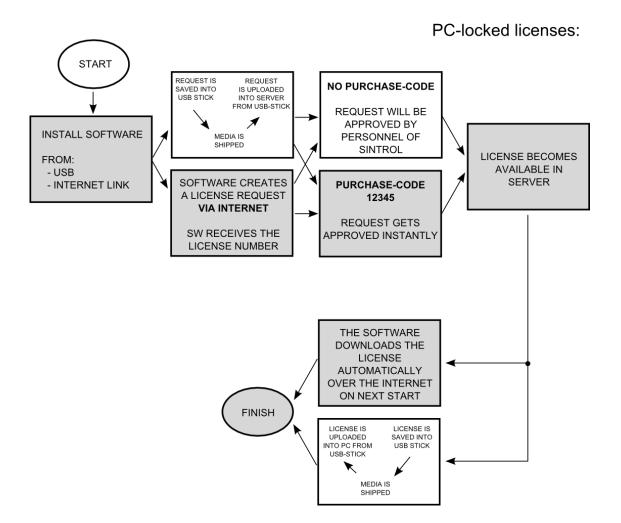
For this reason it is possible to buy a specific license beforehand.

This means that for that particular license will be created a temporary (one time usable) *purchase code*. Then, by giving this unique purchase-code during the installation the Sintrol license server will authorize the license creation immediately. Naturally, this means also allowing the PC-computer to connect via internet to Sintrol license server.



1.3.3 Procedure with PC-locked license

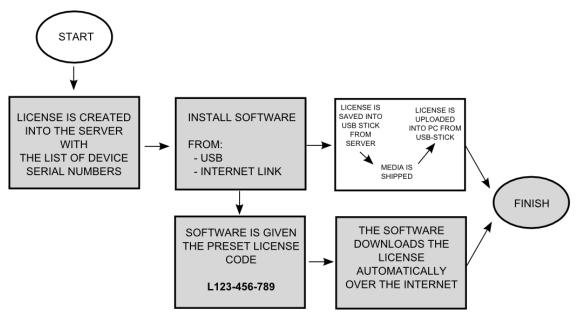
Here's the description on phases required to acquire PC-locked license type. The recommended path is presented in gray and it requires internet connection at the moment of installation.





1.3.4 Procedure with Device locked license

Here is presented the device locked license procedure. The procedure itself needs the creation of license by Sintrol personnel beforehand. The license is then only pointed to the software from file or via internet.



1.3.5 Making changes in a license

Changes are mostly done in order to extend the existing network of dustmonitors.

A License file itself cannot be modified directly. All modifications need to be done and approved by Sintrol, after which a new license file will be available.

In order to apply the new license, user needs to acquire it from the server. First open the SETTINGS window and find the LICENSE section. Then open the LICENSE WIZARD to manage your license.

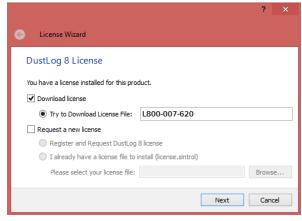
To apply a new license, there is two options to do this:

1. Via internet

Select next, and the software will load the updated license file from server automatically.

2. Using file (on data media)

Select 'request a new license' option and use BROWSE option to point to the new license file.





2 SOFTWARE OPERATION

NOTE

The **signal** is the output of the measurable data. The **signal** is created from the device.

2.1 Home Screen

The Home Screen is the main screen of the DustLog 8 application. From the Home Screen you can open other views of DustLog 8 like Reports, Monitor, Alarms, Signals, Network, Help, Settings or Devices window.

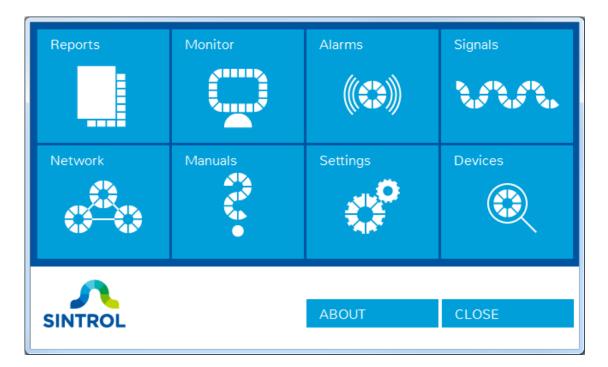


Figure 1 The DustLog 8 application Home Screen



The main views of DustLog 8 application:

1. Reports View:

You can create a single signal report from signals. You can also export reports to CSV files or review and print reports.

2. Monitor View:

You can view historical trend, average value and current value of the signals.

3. Alarms View:

You can create and modify alarms. You can view alarms log of the signals.

4. Signals View:

You can modify signals. You can change name or color of the signal, you can change the plot title and fixed scales, and you can change the group of the signal. You also give calibration values of mA output.

5. Network View:

You can set and view the position of the device on the custom map (e.g. the factory map).

6. Manuals View:

You can open the latest device manuals. You can also find the latest version of this manual.

7. Settings View:

You can change the settings of this application like: database, network, language or master password. You can check the latest update of DustLog 8 application and see the license information.

8. Devices View:

You can easily control of the parameters and features of your Sintrol products.



The **About** button shows the other license information of the DustLog 8 application. The **Close** button will hide the application. See the *note* below:

NOTE

The Home Screen close button won't close the DustLog 8 application. The DustLog 8 application will keep running in the system tray! Data saving will continue until termination. To terminate the DustLog 8 application, choose **Quit** in the context menu of the system tray entry (right click the DustLog 8 icon).

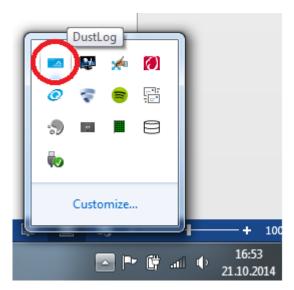


Figure 2 System Tray Entry of DustLog 8 application



2.2 Reports

The Report View handles the reports. You can create a report from the single device. You can also export reports to CSV files or review and print reports.

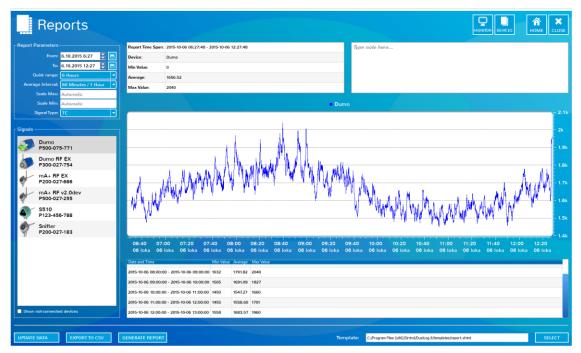


Figure 3 The DustLog 8 application Reports View

2.2.1 Report Parameters

You can change the time span of the report. You can select the quick range of the time span. It is also possible to select average interval of the values. You can give fixed scale for the plot.

<from></from>	Starting time of the report.
<to></to>	End time of the report.
<quick range=""></quick>	Quick selection for start and end time of the report.
<average interval<="" th=""><th>> Average for values which will show on the value table.</th></average>	> Average for values which will show on the value table.
<scale min=""></scale>	Minimum value which will show on the plot.
<scale max=""></scale>	Maximum value which will show on the plot.
<signal type=""></signal>	Signal type of the value.

2.2.2 Report Buttons

<update data=""></update>	Updates data of the report.
<export csv="" to=""></export>	Export data to CSV (comma-separated values) file.



<generate report> Creates a report from template file.

<template></template>	Html template file which is used to create the report.
<home></home>	Opens the Home Screen window.

<close> Closes the Reports view.

2.2.3 Signals List

The signal which will be used as the source of the report. Only single selection is supported.

NOTE

The report data won't be updated until the **UPDATE DATA** button has been pressed.

If the system time is changed, the original data will be displayed. The duplicate data with same timestamp will be ignored.

2.3 Monitor

The Monitor view shows the historical trend of signals. You can see the latest value and the average value of the signals. You can also see possible alarm limits of the signals. You can configure signals from Signals View (name, color, group, scale, unit, etc.).

Group 1				
Snifter (P200-027-183)	2	🐠 (P500-075-771)	🗧 🗳 S510 (P123-45	
3;45 14;00 14;15 14;30	APHS	13;45 14;00 14;15 14;30	13;45 14;00	14;15 14;30
	20k	min hanne was a second of a	.5k	- 70k
	15k ALARMS		ALARMS	- 60k
	- 15k 🕺	- 10		50k
	- 10k			-40k
. John Mark Mile And Andrew Hall Stern Marked as Marked	the la	- 50	00	30k - 20k
Andrew and the second field that Adda by	- 5k			
				10k
14:43:47	9690	d		
		ef		<u> </u>
mA+ RF v2.0dev (P500-027-255)				<u> </u>
mA+ RF v2.0dev (P500-027-255)	9690	e mA+ RF EX (P200-027-666)	9 0° 30 dumo RF EX (F 13;45 14;00	•300-027-754)
mA+ RF v2.0dev (P500-027-255)	9690	d 1661 mA+ RF EX (P200-027-666) 13:45 13:45 14:15 14:30	9 dumo RF EX (F 19:45 14:00 Modelautor	2300-027-754) 14 ₁ 15 14 ₁ 30
mA+ RF v2.0dev (P500-027-255)	9690	d 1661 mA+ RF EX (P200-027-666) 13245 11345 14;15 14;30 3. 3.	Image: specific system Image: specific system<	2300-027-754) 14;15 14;30
mA+ RF v2.0dev (P500-027-255)	9690 - 3.5k - 3k	d 166 7 mA+ RF EX (P200-027-666) 13:45 14:00 14:15 14:30 3:4 3:4:15 14:30 3:4:15	dumo RF EX (12,45 14,00	300-027-754) 14;15 14;30 1.2k
mA+ RF v2.0dev (P500-027-255)	9690 3.5k 3k 2.5k	d 166 7 mA+ RF EX (P200-027-666) 13:45 14:15 14:30 3:45 14:00 14:15 14:30 3:45 - - -	Image: state	0 55184 14;15 14;30 1.4k 1.2k 1.2k
 mA+ RF v2.0dev (P500-027-255)	9690 3.5k 2.5k	d 166 13:45 14:00 14:15 14:30 3:45 14:00 14:15 14:30 3:30 2: 2: 2: 2:	Image: state	0 55184 14;15 14;30 1.4k 1.2k 1.0k 800
mA+ RF v2.0dev (P500-027-255)	9690 3.5k 2.5k 2.5k	d 1661 13,45 14,00 14,15 14,30 33 34 2,2 24	dumo RF EX (13;45 14;00 13;45 14;00 14;55 4 55 4	300-027-754) 14,15 14,30 1.4k 1 1k 1 1k 1 000 600

Figure 4 Monitor View of DustLog 8 application



2.3.1 Monitor Tabs

You can group the signals (You can change and rename the groups from Signals View). One group can have up to 12 signals. The **GRAPHS** tab shows the trend of the signals and the **ALARMS** tab shows the list of alarms of the signal.

2.3.2 Monitor Settings

You can change the scale of the plot by clicking the hour radio button. Available scales are 1, 6 and 24 hours. You can also see the average line, clock and minimum/average/maximum values by checking the checkboxes. Unchecking it will remove the information.

2.3.3 Monitor Buttons

<home></home>	Opens the Home Screen window.
<close></close>	Closes the Monitor view.

2.4 Alarms

You can create and modify alarms. You can view the signal alarms log.



Figure 5 The DustLog 8 application Alarm Log View



2.4.1 Alarm Log Tab

You can change the time span of the alarm log. You can also select the quick range of the time span.

<from></from>	Starting time of the alarm log entries.
<to></to>	End time of the alarm log entries.

<quick range> Quick selection for start and end time of the alarm log

2.4.2 Signals List of Alarm Log

You can view the alarm log for the selected signal. Multiple signals can be selected.

									М номе с
iarm Name	Default Signal		Logic	Limit A	Limit B		Severity	Action	
6510 (TC) P100-200-300	\$510 (TC) P100-200-30	•	greater than	• 0	1000		🥮 High	Select Actions:	 APPLY
arm Name Default Signal Lo 510 (TC) P100-200-300 S510 (TC) P100-200-300 gr		Limit B 1000		tion ow On Monitor					
	SETTINGS								
ADD REMOVE :	SETTINGS								5 minut
utgoing mail server (SMTP):			-	Port: 0					SEND TEST M
Authentication: None				Host Login:		Host Password:			
Sender Display Name:			Send	er Email Address:					

Figure 6 The DustLog 8 application Alarms View

2.4.3 Alarms Tab

You can create and remove alarms. You can change alarm settings.

<add></add>	Creates a new alarm.
<remove></remove>	Removes the alarm.
<settings></settings>	Shows email settings of the alarms.

2.4.4 New Alarm

You can create a new alarm by pressing **ADD** button.

<alarm name=""></alarm>	Alarm name (default name is the signal name)
<default signal=""></default>	The signal which data is used for the alarm.
<logic></logic>	The logic which is used to activate the alarm.



<limit a=""></limit>	First compare value for the logic.
<limit b=""></limit>	Second compare value for the logic.
<severity></severity>	Severity for the alarm.
<action></action>	Action for the alarm. Possible actions are 'Send Alarm Mail', 'Show Notification' and 'Show on Monitor'. It is possible to select multiple actions.

2.4.5 Email Settings

Email Settings are used to configure the outgoing mail server which are used to send alarm mails. The alarm mail will be sent when the alarm is active. You can also test email settings by pressing the **SEND TEST MAIL** button. Please, ask your company's IT support for the mail server settings.

<delay></delay>	•	Delay for the alarm email. Set the time, for how long an alarm must be active before alarm mail will be send.				
<smtp></smtp>	Outgoi	Dutgoing email server address. (e.g. smtp.gmail.com)				
<port></port>	Outgoi	ng email server port number. (e.g. 587)				
<authentication></authentication>	Auther	tication method of the mail server.				
<host login=""></host>	The ma	il server username.				
<host password=""></host>	The ma	il server password.				
<sender display="" na<="" th=""><th>ame></th><th>The name which is shown as alarm email sender.</th></sender>	ame>	The name which is shown as alarm email sender.				
<sender add<="" email="" th=""><th>lress></th><th>The email address which is shown as alarm email sender.</th></sender>	lress>	The email address which is shown as alarm email sender.				
<recipients a<="" email="" th=""><th></th><th>> Receiver address of the alarm email. There can multiple ers. Use semi-colon to separate the receivers.</th></recipients>		> Receiver address of the alarm email. There can multiple ers. Use semi-colon to separate the receivers.				

2.4.6 Alarms Buttons

<home></home>	Opens the Home Screen window.
<close></close>	Closes the Alarms view.

2.5 Signals

You can modify signals. You can change the name or color of the signal, you can change the plot title and fixed scales, and you can change the group of the signal. You can also give calibration values of mA output.

NOTE

You cannot create or remove signals. Signals are created automatically by the DustLog 8 application when a new device has been added through the Devices View.



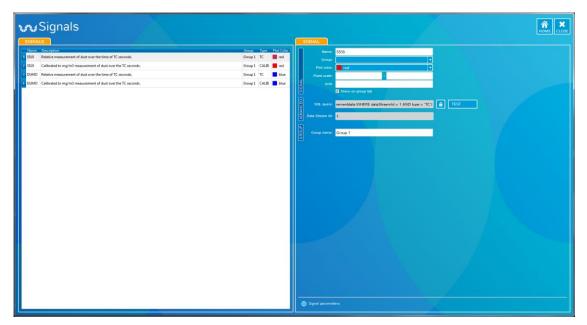


Figure 7 The DustLog 8 application Signals View

2.5.1 Signal Parameters

<name></name>	Name of the signal.
<group></group>	Group of the signal. Groups are used on Monitor View.
<plot color=""></plot>	The plot color of the signal.
<fixed scale=""></fixed>	Minimum and maximum value of the signal plot scale.
<unit></unit>	Unit which is shown on the signal plot.
<show group="" on="" ta<="" th=""><th>ab> Possibility to hide the signal from group tab of Monitor View.</th></show>	ab> Possibility to hide the signal from group tab of Monitor View.
<ma calibration=""></ma>	The measurement values for 0 or 4 and 20 mA. The resolution of the measurement can be 12 or 16 bits.
<sql query=""></sql>	For advanced use only!
<data id="" stream=""></data>	For advanced use only!
<group name=""></group>	Name of the group tab.

2.5.2 Signal Buttons

<home></home>	Opens the Home Screen window.
<close></close>	Closes the Signals view.



2.6 Network

You can set and view the position of the devices on the custom map (e.g. the factory map).



Figure 8 The DustLog 8 application Network View

2.6.1 Network View Settings

<add></add>	Adds map image from	Adds map image from the computer.			
<remove></remove>	Removes current ma	Removes current map image file.			
<color correction=""></color>	the image saturation,	colors of your map image. You can change brightness, contrast and transparency. You cale or black & white image from your map			
<icon size=""></icon>	Changes the icon size of the device icon.				
<resize image<="" th="" the=""><th>to fit the sceen size></th><th>Resizes the background image to fit the screen.</th></resize>	to fit the sceen size>	Resizes the background image to fit the screen.			

2.6.2 Network Buttons

<home> Opens the Home Screen window. <close> Closes the Network view.



2.7 Manuals

You can access the latest version manuals of the Sintrol's devices. You can also find the latest version of this manual. Click manual name to open or download the manual.

Ma						
Vailable ma	Nuals:	Language				
f Snifter A2	1.2.4	U.S. English	21.8.2014 🗙			
f Snitter A3	1.2.4	U.S. English	21.8.2014 🗙			
f Snitter mA+	1.2.4	U.S. English	21.8.2014 🗙			
\$ 5510	1.1.0	U.S. English	21.8.2014 🗙			
* 5710 Marine	1.2.1	U.S. English	28.8.2014 🗙			
HIDE DOWNLO Downloadab Minual	le manuals		Date	To have		
Downloadab		5: Language U.S. English	Date 218.2014	Fer None 94T_3040_01040_4100_114_04_09-11pdf		
Downloadab Manual DUMO	le manuals	Language				
Downloadab Manual	le manuals Version 1,2,4	Language U.S. English	21.8.2014	SNT_MAN_DUMO_4100_1.2.4_EN_2014-08-21.pdf		
Downloadab Manual DUMO DUMO EX	le manuals Version 12.4 12.4	U.S. English U.S. English U.S. English	21.8.2014 21.8.2014	SNT_MAN_DUMO_4100_12.4_EN_2014-08-21.pdf SNT_MAN_DUMO_EX_4140_12.4_EN_2014-08-21.pdf		
Downloadab Manual DUMO DUMO EX S3 301	le manuals Version 12.4 12.4 15	U.S. English U.S. English U.S. English	21.8.2014 21.8.2014 179.2013	9/(T_MAN_DUMO_4100_11.24_BH_2014-06-21baf 9/(T_MAN_DUMO_BK_4140_12.4_BH_2014-06-21baf 9/(T_MAN_51_31_01_13_BH_2013-06-17baf)		
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Figure 9 The DustLog 8 application Manuals View

NOTE

PDF reader is needed to open/read the manuals.



2.8 Settings

You can change the settings of this application like: database, network, language or master password. You can check the latest update of DustLog 8 application and see the license information.

	P Settir	ngs				cL	OSE
DATABASE		Host name localhost	Port number 5433	Database name	Usemame postgres	Password	
SOL D	Enable automatic cle	anup Delete measurements	data older tha	n: 180 📮 days.		TEST CONNECTION	
VORK	 Allow all Internet traf No proxy Use sy 	ffic ystem proxy settings 🏾 🎯 Mani	ual proxy confi	guration			
NETWORK	HTTP Proxy:					Port: 0 🚔	
UPDATES	Software Update chec	ks for new and updated ver	sions of you	r software based on informa	tion about your computer an	d current software.	
SOFTWARE UPDATES	Last check: tiistai, lokakuu		-				
MASTER PASSWORD	Please make sure you settings protected by		sword you ha	ive set. If you forget your Ma	aster Password, you will be u	inable to access some	
MASTER P	CHANGE PASSWOR	_	n changing you	r database 🛛 When deleting t	he device 💟 On Signal Query		
UAGE	An application restart	is needed in order to chang	e the langua	ge.			
()	Application Settings						↓

Figure 10 The DustLog 8 application Settings View

2.8.1 SQL Database

<sql database=""></sql>	Shows which SQL database is in use. The DustLog 8 application supports SQLite, PostgreSQL and Microsoft SQL databases. The DustLog 8 application will be restarted after Close button has been pressed.
<host name=""></host>	Host Name of SQL database.
<port number=""></port>	Port Number of SQL database.
<database name=""></database>	Database name of SQL database.
<username></username>	Username of SQL database.
<password></password>	Password of SQL database.



<enable automatic cleanup> Allows you to automatically delete permanently measurement data from SQL database which is older than defined value (days).

2.8.2 Network

<allow all internet traffic> Allows DustLog 8 application to connect to the Internet in order to retrieve data like manuals and software updates.

proxy > Proxy settings which DustLog 8 application is using to connect to the
Internet.

2.8.3 Software Updates

<check updates> Check for the latest software updates from the Sintrol Server.

<updates devices> Check for the latest device description files from the Sintrol Server.

<automatically check for updates at startup> Check for the latest software updates at DustLog 8 application startup.

2.8.4 Master Password

The Master Password is used to protect the important DustLog 8 settings and actions. The Master Password is needed to change these settings.

<change password> Changes the Master Password.

<usage> Select which actions and settings should be password protected.

NOTE

If you forget the Master Password, please contact Sintrol at info@sintrolproducts.com

2.8.5 Language

To change the DustLog 8 Application language. Restart is needed!

2.8.6 License

cense wizard> Request the new license or update the current license.

<print license> Prints the current license.

2.8.7 Startup

Open DustLog 8 application automatically after you log into the computer.

2.8.8 Settings Buttons

<close> Closes the Settings view.



2.9 Devices

You can easily control of the parameters and features of your Sintrol products.

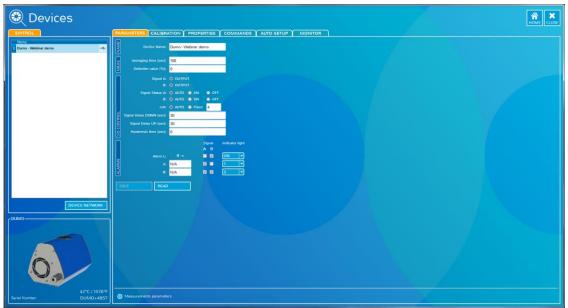


Figure 11 The DustLog 8 application Devices View

2.9.1 Parameters / Calibration / Properties

On the parameters page, user can modify the operating parameters of the connected Dust meter. On the calibration page, user can modify the calibration parameters of the connected Dust meter. On the properties page, user can modify the properties of the connected Dust meter

The basic operating principle to change parameters / calibration / properties are:

Change parameter to the desired value.

Press "Save" button to save the changes into the memory of the instrument. If the "Save" button is not pressed, the changes will not be sent to the device and the values will be lost at program shut down or when device is detached.

By pressing "Read", the parameters which are currently saved in the instrument will be loaded from the device.

2.9.2 Commands	
<identify></identify>	Identify operation makes the front cover illumination of the product blink.
<reset></reset>	Reset operation set devices to factory defaults.
<disconnect></disconnect>	Disconnect operation disconnects the device from the network.



2.9.3 Auto setup

<run> Initiates the auto setup procedure.

<stop> Stops auto setup procedure.

🛞 Devices			HOME CLOSE
SINTROL Name		15-15	
1 Dune - Webbur dans	twww.www.www.www.www.	nons	
			- 2k - 2k -
0,			- 1k
43°C / 109.4°F Seriel Number: DUMO+4857			4611

Figure 12 The DustLog 8 application Monitor tab

2.9.4 Devices Buttons

- **<home>** Opens the Home Screen window.
- **<close>** Closes the Devices view.



2.10 NETWORK

On the network tab one can manage the current Sintrol Network routing and topology. The graphical presentation of connections shows links within the Sintrol Network: Dotted line between units present the RF connection and solid lines stand for the RS485-wires.

Modifications on the network are done via menu that appears by right-clicking the desired node/unit.

2.10.1 Create the network

By right-clicking the Wireless Router itself a control menu appears. From the menu it is possible to scan the network, in order to add new devices. Sintrol devices that are not a part of any network, will appear and join the new network automatically.

Before manual re-routing of devices within the network, action must be enabled first by command 'Enable Manual Re-routing' from the router's menu.



Figure 2 Router menu

2.10.2 Manually routing the devices

To get started with re-routing the devices, first one must right-click the Wireless Router and enable Manual routing for the network.

When the manual routing is enabled, the devices in the network can be right-clicked and via the menu:

6	Disconnect from Network	
P800-(Connect To:	•
	Power Level	•
	Router Power Level	•

1. Disconnected from the network.

The device will disappear from this network and stay ready to join other networks.

2. Moved around the network by reconnecting them into another node (device) within the network.

Every Sintrol network device can be selected as a link.



3. Or their RF-transmission power levels can be adjusted.

Each device has a setting of their own RF-transmission levels for upstream and downstream, which can be manually adjusted.

2.10.3 Transmission power level options

Each RF-link within the Sintrol Network has it's own transmission power levels in order to ensure best possible operation and minimal interference with possible other networks within the area.

Transmission power level setting is also directional and device role dependent.

Every device within the Sintrol Network has a separate upstream and downstream transmission levels. Upstream level is used with transmission towards the network root node (towards the Wireless Router) as the downstream transmission level is used to communicate with the devices further away in the network.

Wireless Router operates as the root node of the network and thus has no upstream level at all. However, the Wireless Router manages unique transmission levels for each first level devices in the network independently.

2.10.4 Usage of transmission power levels

Links between nodes in RF-network work generally most reliably, when the transmission levels match the receiver sensitivity. The transmission level settings of Sintrol Network provide a flexible and powerful way to optimize the reliability of communication.

The error levels of a received message is highly dependent on the distance between the two devices. Also the conditions in between the devices, like structures (f.ex. metal and concrete) typically have a notable role in dampening or reflecting the RFsignals.

In some cases it is also possible that devices may receive the transmitted signal way too well due to reflections or very close distance. In this case it would be in order to lower the transmitting level of the link to ensure best possible reliablility of the message transmissions.



F	