SETUP GUIDE DUSTTRAK AEROSOL MONITOR MOBILE APP

FOR USE WITH ENVIRONMENTAL DUSTRAK[™] AND DUSTRAK[™] AEROSOL MONITOR MODELS 8530(EP), 8533(EP), 8540, 8543, 8540-M, 8542-M, 8543-M

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Downloading the App onto a Mobile Device

- 1. Access Google Play[™] or Apple Store[®].
- 2. Search for DustTrak Mobile using the app search engine.
- 3. Download and install the app.

Configure Ethernet IP Address for Environmental DustTrak Aerosol Monitor

1.	. Start Environment DustTrak Checkout Software.									
		Ν	ΙΟΤΕ	S						
	This software can be downloaded	from the	TSI w	vebsite	e:					
	Navigate to the Environmental	DustTrak	Aeros	sol Mo	onitor	Produ	ict page.			
	Under "Additional Product Inf	ormation	" clicl	k on S	oftwa	are.				
	The software can also be found Env or by entering the model n	d using the umber.	e TSI	Softw	are a	nd Fir	mware Wiz	zard. Se	arch for	
2.	Power the instrument.	· Environmental	DustTrak Ch	eckout 2.0	0.0				[m][M	123
3.	Connect the instrument to a	Connect	Data	Flow	Zero	Laser	Diagnostics	IP Label	IP Addressing	
	computer with the provided USB cable.	Inst IP addr Serial Numt	sen -	***			onnect to Instrumen			
4.	Click Connect to Instrument to	Model Num Firmware Vi	iber: -							
	communicate with the instrument using the Checkout Software	Instrument Calibration Filter Chang	Time: 0 Date: 0 je Date: 0))/01/1900)1/01/1900)1/01/1900	00:00:00 4	AM So	t Instrument Date a	nd Time		
	Checkoul Sollware.	Cum Mass: Cum Filter M Pump Run 1	C Mass: C fime: C))	mg mg hrs	lb:	set Filter Date and G	oncentrations		
						5	hutdown Instrument			

5.	Click on the IP Addressing tab.	Environmental DuitTrak Checkout 2000
	_	Connect Data Flow Zero Laser Diagnostics IP Label IP Addressing
		Serial Number: 8543154202
		Model Number: 8543 Firmware Version: 3.4
		Instrument Time: 3/31/2017 10:45:35 AM Set Instrument Date and Time Calibration Date: 5/3/2016
		Filter Change Date: 6/2/2016
		Cum Mass: 1.047917 mg Reset Filer Date and Concentrations
		Pump Run Time: 2473 hni Shutdown Instrument
6.	Select Static from the pull-down me	enu.
	Environmental DustTrak Checkout 2.0.0.0	
	Connect Data Flow Zero I	aser Diagnostics IP Label IP Addressing
	EThernet IP Addressing D	ynamic •
		Anamic Static
		Environmental DustTrak Checkout 20.0.0
		Connect Data Flow Zero Laser Diagnostics IP Label IP Addressing
		EThernet IP Addressing Static •
		Current IP Address 0 . 0 . 0 . 0
		Current Subnet Mask 0 , 0 , 0 , 0
		Current Gateway 0 , 0 , 0 , 0
		Save
7.	Enter 192.168.8.186 for the IP	😵 Environmental DustTrak Checkout 20.0.0
	Address.	Connect Data Flow Zero Laser Diagnostics IP Label IP Addressing
8.	Enter 255.255.255.0 for the	
	Subnet Mask.	EThernet IP Addressing Static •
9.	Click Save .	
	NOTES	Current IP Address 192, 168, 8, 186
	Daddraga on the back lebel in	Current Subnet Mask 255 , 255 , 255 , 0
t	he instrument USB IP Address	Current Gateway 0 . 0 . 0 . 0
a	and is not used for the wireless	Save
	communication method.	
	sateway does not need to be	
r	emain 0.	

10. Click on the Connect tab and B Environmental DustTrak Checkout 20.0.0 G B 13 click Disconnect. Connect Data Flow Zero Laser Diagnostics IP Label IP Addressing 11. Power the instrument off. Inst IP addr: 169.254.241.181 Disconnect 12. Power the instrument on. Serial Number: 8543150702 Model Number: 8543 13. Leave power on for two minutes Firmware Version: 3.4 Instrument Time: 3/31/2017 11:08:15 AM Calibration Date: 1/30/2015 Set Instrument Date and Time for the IP Address changes to take effect. Filter Change Date: 1/30/2015
 Cum Mass:
 0.159236
 mg

 Cum Filter Mass:
 0.159236
 mg

 Pump Run Time:
 218
 hrs
 Reset Filter Date and Concentrations 14. Power the instrument off. Shutdown Instrument

Configure Ethernet IP Address for DustTrak Monitor

1.	Power the instrument.	Main	đ	6	01/01/2	005 08:26 PM
2.	Touch Setup tab in the lower-right corner of the screen.					
		Display: AL	L		STEL	
		Run Mode:	SURVEY		Flow	Stats
		Files			Filter	Start
		Main	Graph	Data	RunMode	Setup
3.	Touch Settings in lower-left corner of the	Setup		6	04/22/2	009 02:43 PM
	screen.	Zero Cal	Serial I	Number:	8530084613	
		Flow Cal	Model	Number: tre Version	8530	
		User Cal	Calibra	tion Date:	04/20/200	9
		Alarm	Pump I	Runtime:	0 hrs	
		Paarin	Cum Fi	Iter Mass:	0.0 mg	
		Analog	Filter L	ast Chang	ed: 04/22/2	2009
					terres of the second	
		Settings				

4.	From the pull-down menu select IP.	Die Flash Beb			
5.	Select IP: under the USB IP	Setup - Se	ettings	2014/09/03 18:47	
	Address.	Zero Cal	Date Tir	me 🛃	
	You should now have the option to select either Static or Dynamic.	Flow Cal	Date Tin Backgro Touch C	ne und Cal	
		User Cal	IP Languag	je	
		Alarm			
		Analog		IP	
		Settings		USB IP Address: 169.254.22.1	
		Main	Graph	IP Address: 10.1.12.18 Sub Net Mask: 255.255.255.0 Gateway: 10.1.12.254	

ΝΟΤΕ

New DustTrak instruments are set to Dynamic

7. Select IP address and enter 192.168.8.186, click Save.

ΝΟΤΕ

DO NOT change the USB IP Address.

- 8. Select Subnet Mask and enter 255.255.255.0, click Save.
- 9. Select Gateway and enter 0.0.0.0, click save
- 10. Return to main screen.
- 11. Turn off instrument.

ΝΟΤΕ

Power must be cycled before settings will take effect allowing for communication with the app.

Please reference the DustTrak 8530(EP) and 8533(EP) manual for additional information regarding setting the Ethernet IP address (see *Chapter 3: Settings*).

Configure the Wireless Router

1. Connect the 1 dB hinged antenna to the router. fy. Currently connected to: 2. Connect the router to your computer using the USB cable. corp.com Internet access a. Completing this step will provide power to the router. Wireless Network Connection ~ b. It is not a means of communication. TSI Wireless -11 3. Connect to the router wirelessly. <u>C</u>onnect a. This can be done using a computer or mobile device. GL-AR150-e3e -11 b. Wireless network for the router will contain GL-AR150 TSI Guest -11 in the SSID. HP7982A6 2 31 HP-Print-17-LaserJet 1102 Open Network and Sharing Center 1. Using an internet browser (e.g., GL.inet Welcome, 3 steps to set up your router Google Chrome[™]) type the router IP address into URL. Choose Your Language The router IP address can a. be found on the bottom label (IP 192.168.8.1). 中文 English b. You will be taken to GL.iNet allowing you to access the router settings. c. The first time you access the router you may need to set up a language, your time zone and new access password. d. The new access password is used for logging into the GL.iNet application and is different than the wireless router password, but can be the same for clarity. 2. Create a password and click GL.inet Welcome, 3 steps to set up your router Finish. Set Your Password Your Password **Retype Password**

3.	Clia	ck on Wireless settings in ick setup menu.	But with the series of the serie
4.	Chi TS a.	ange the SSID to I-XXXXX. The SSID must start with TSI- , but can have additional characters after it if preferred. NOTE TSI must be capitalized. You can also change the wireless password to access the router, also indicated by "Key" on the bottom label of physical router.	Wireless Settings Main (2G) Mode 72M (11ng) Channel 11 SSID TSI-EDT1 Encryption WPA/WPA2 Mixed Password Keep blank to keep pas
5.	Clie	ck Submit.	x
	a.	After clicking Submit it is normal to lose your network connection because the SSID has been changed.	Please reconnect your network Prevent this page from creating additional dialogs.
	b.	You may get a notification from your browser asking to reconnect your network.	ОК
	C.	Click OK .	
	d.	You are now ready to connect to the instrument using your mobile device.	



Connect to the Instrument Wirelessly using a Mobile Device

ΝΟΤΕ

To ensure proper communication with DustTrak instruments, Wireless router installation procedures **need** to be completed prior to starting this procedure.

- 1. If not already on, turn on your DustTrak instrument.
- 2. Allow two (2) minutes to pass to confirm the router has had time to start up and communicate with the instrument.
- 3. Access wireless Settings on the mobile device.
- 4. Select the specific router you would like to communicate with from the available wireless networks on your mobile device. Look for the wireless SSID that was configured in the previous steps.
- 5. Navigate to the DustTrak Mobile app on your mobile device.
- 6. **Open/Start** the DustTrak Mobile app on your mobile device.
- 7. Click the green connect button in the app.
- 8. Default main screen is "Mass View."

Items displayed in the Mass View screen:

- Device Serial Number
- STEL, System, Laser and Flow status
 - o Green No errors or STEL limit has not been reached
 - o Red Function has an error or STEL limit has been exceeded
- Mass Concentration Total updated every second if the instrument is sampling
- For DRX models PM1, PM2.5, PM4, PM10 size fraction mass concentrations
 - o Touching one of the size fractions will replace Mass Concentration Total
- Time Remaining in Test hr:mm:sec

Using the App

- 1. Touch the 3 bar icon to access the app menu.
- 2. Touch Start/Stop to start and stop the instrument.
- 3. Touch Setup for additional instrument information.
 - a. Serial Number
 - b. Model Number
 - c. Firmware Version
 - d. Calibration Date
 - e. Filter Last Changed
- 4. Touch **Graph** to view the last two minutes of live data updated every second.
 - a. For DRX models all five (5) mass channels are graphed simultaneously.
 - b. Touch PM1, PM2.5, PM4, PM10 or Mass Concentration Total to view or not view that size channel on the graph.
- 5. Touch **Download Data** to download all logged files from the instruments internal memory.
 - a. If the instrument is logging, the app will need to stop the instrument before the data can be downloaded. Be sure you want to do this, because you will not be able to resume the log. A new log will need to be started.
 - b. App will state the data is being retrieved and will show percentage to completion.
 - c. Data is downloaded to the mobile devices hard drive.
- 6. Touch **Review Data** to review downloaded data.
 - a. From the pull-down menu select the log file you would like to view.
 - b. Touch Graph Data to view a graph of the log file.
 - c. Touch Show Test Data to go back to tabulated format.
 - d. Reviewing data can be done even if you are not connected to an instrument.
- 7. Touch Send Data to e-mail downloaded log files.
 - a. Disconnect from the instruments wireless router and reconnect to cellular network.
 - b. Enter an e-mail address and touch Submit.
 - c. Choose an e-mail app and send using your normal process for sending e-mails.
 - d. All log files will automatically be attached to the e-mail (CSV file format).
 - e. Sending data can be done even if you are not connected to an instrument.
- 8. Touch **Clear Downloaded Data** to remove all log files from the mobile device's hard drive.
 - a. Clearing Phone Data can be done even if you are not connected to an instrument.
- 9. Touch **Delete EDT Data** to remove all log files from the instrument.
- 10. Touch **Disconnect** to disconnect from the wireless router.

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