REMOTE PARTICLE COUNTER WITH PUMP (6000 SERIES) HOW TO SETUP

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Description

This procedure explains how to setup the AeroTrak@+ Remote Particle Counter with Pump (6000 Series) prior to FMS 5.5 configuration.

Prerequisites

Prior to starting setup of the AeroTrak+ Remote Particle Counter with Pump, install the TSI Remote Application and the FTDI driver. Install Adobe® Reader® software if you want to use Adobe® Reader® software to read report PDF files generated by the application.

To setup the AeroTrak+ Remote Particle Counter with Pump, a USB-A to USB-C cable will be required.

When the AeroTrak+ Remote Particle Counter is powered through a USB-C cable, the pump will not run after exiting **Tech page** due to power consumption of the pump. To run the pump when the setup is finished, it is required to have the AeroTrak+ Remote Particle Counter with Pump connected to a PoE+ switch or auxiliary power. The AeroTrak+ Remote Particle Counter with Pump will automatically switch the power supply from USB-C to the PoE+.



TSI Remote APP Installation



6. When installation is finished,	Device Driver Installation Wizard
click Finish .	FTDI CDM Driver Packa Ready to use
 7. To install TSI AeroTrak+ Remote Particle Counter Setup APP, run the installer RemotesAppInstaller_64-bit.exe. 	RemotesApp - InstallShield Wizard Welcome to the InstallShield Wizard for RemotesApp The InstallShield(R) Wizard will install RemotesApp on your computer. To continue, click Next. WARNING: This program is protected by copyright law and international treaties.
 8. Click Next. 9. Accept the License terms. 10. Click Next. 	RemotesApp - InstallShield Wizard License Agreement Please read the following license agreement carefully. Software License (effective March 1999) This is a legal agreement between you, the end user, and TSI Incorporated. BY INSTALLING THE SOFTWARE, YOU ARE AGREEING TO BE BOUND BY THE TERMS OF THIS AGREEMENT. IF YOU DO NOT AGREE TO THE TERMS OF THIS AGREEMENT. IF YOU DO NOT AGREE TO THE TERMS OF THIS AGREEMENT, PROMPTLY RETURN THE UNOPENED PACKAGE AND THE ACCOMPANYING ITEMS (including written materials and binders or other containers) to TSI to a full cofund. TEL SOFTWARE TEPDAG accept the terms in the license agreement InstallShield InstallShield

11. Select Installation folder.	RemotesApp - InstallShield Wizard
12. Click Next.	Destination Folder Click Next to install to this folder, or click Change to install to a different folder.
	Install RemotesApp to: C:\Program Files (x86)\TSI\RemotesApp\
	InstallShield < Back Next > Cancel
13. Click Install to start installation.	많 RemotesApp - InstallShield Wizard 또
	Ready to Install the Program The wizard is ready to begin installation
	Click Install to begin the installation.
	If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
	Installsnield
14. When installation is finished,	RemotesApp - InstallShield Wizard
click Finish .	InstallShield Wizard Completed
	The InstallShield Wizard has successfully installed RemotesApp.
	Click Finish to exit the wizard.
	< Back Finish Cancel

Instrument Setup

r		Т				
1.	Connect AeroTrak+ Remote Particle	Ic	con	Description	1	
	with a USB-A to USB-C cable, the instrument will then initialize.	Į	Ų —	TSI Setup Ap AeroTrak+ I	oplication conr Device.	nected to the
2.	2. Start the TSI Remote Application by double-clicking the RemotesApp	ľ	<u>↑</u>	Export Aero configuratio	Trak+ Remote n to an XML fil	Particle Counter e for further use.
	shortcut on the desktop.		Ł	Import an XI settings.	ML Template f	ile with configuration
		4		When Instru USB-C cable warn for a F	iment is only p the Alarm bell low Error.	owered through icon is shown to
3.	When the TSI Remote Application starts, it will download the settings saved in the instrument as shown.		Action Channel Channel Ch1 Ch2 Ch3 Ch4	counts Instrument 28 Sample Tm (s) 28 Qarticle Size (µm) 0.3 0.5 5 10	Page μ Communication 0 14 Hold Tm (s) 0 20936 2 2446 5 5 2 2 2	DISCONNECT DISCONNECT Model: 6301 Serial: 630103 Location Name: ROOM_100 Date: 2018-11-30 (yyyr,mm.dt) Time: 07:51:33 Status Status Alarm: Current Flow (lpm): 2.85 Run Mode: AUTO Sample Length (s): 60 Start Delay (s): 0 Hold Time (s): 0
4.	Go to the Instrument tab to check the instrument settings already set.	5	AreoTrak- Remote App Control of the second	eroTrak+ Remote Main F counts Instrument ersion: te (yyyy-mm-dd): w (lpm): Time (hrs): Time (hrs): Time (hrs): Time (hrs): Light Level:	Page Image: Communication 0.36 2018-01-01 2.83 49.38 28.09 71.23 0.19 0.19	DISCONNECT Instrument Information Model: 6301 Serial: 630103 Location Name: ROOM_100 Date: 2018.11.30 (vyy.mm.dt) Time: 07.53.29 Status Alarm: Current Flow (Ipm): 2.76 Run Mode: AUTO Sample Length (s): 60 Start Delay (s): 0 Hold Time (s): 0

5. Go to the Communication tab to check the instrument communications settings already set.	Counts Instrument Communication IP Address: 192.168.1.61 DHCP: OFF IP Mask: 255.255.255.0 IP Gateway: 192.168.1.1 Multicast Addr: 239.100.100.1 Multicast: ON Multicast Port: 5000 5618.1.30 SNTP Addr: 255.255.255.5 SNTP: OFF Time Zone: (UTC Offset) 0.0 Mac Addr: 0.30.20.0.0.1 MAC Addr: 0.30.20.0.0.1 Modbus Ver: Ver 2
 To make any changes to the instrument settings, go to Menu. Select Tech Page. 	Main Page Instrument Communication Tech Page (will stop sampling) 192.168.1.61 DHCP: OFF Social Page 39.100.100.1 Muthicast: ON Social Page 55.255.255 SNTP: OFF C Offset) 0.0 0.30.200.01 Modulus Ver: Ver.2 Status Alarm:: Current Flow (Ipm): 2.85 Run Mode: AUTO Sample Length (e): 60
 8. When requested, enter Tech Password (admin by default, must be all lower-case). 9. Click Submit. 	AeroTrak+ Remote App Enter Tech Password Tech Password:

- 10. **Config** screen where the sample settings can be set now displays.
 - **NOTE:** If a template has been previously saved to quickly configure an instrument, it can be loaded from this point by clicking icon.

Config Alarm F	Relay Analog Instr	Data Passwd Rese	t	
Sample Configuration	ı	SAV	E	
Sample Length (s):	30			
Start Delay (s):	0			
Hold Time (s):	0			
Run Mode:	Auto O Mar	ual		
Date and Time		SAV	E	
Date (yyyy-m-d):	2018-12-20	Time (hh:mm:ss):	05:42:03	
Sync to computer:	SYNC			

SAMPLE CONFIGURATION			
Sample Interval (s)	Time the counter actually counts particles (1 to 65535 seconds)		
Start Delay (s)	Delay before a sample start (1 to 65535 seconds)		
Hold Time (s)	Time between samples (1 to 65535 seconds)		
Run Mode	Auto Manual	When instrument is set to Auto , the AeroTrak+ Remote Particle Counter with Pump will start sampling automatically after power up. This mode is used by FMS to control the AeroTrak+ Remote Particle Counter with Pump. Manual mode is used with software other than FMS.	
DATE AND TIME			
Date	Sets counter date.		
Time	Sets counter time.		
Sync to Computer	Synchronize AeroTrak+ Remote Particle Counter with Pump date and time with the computer used to setup the instrument.		

11. Change Sample Configuration as required.	I AeroTrak+ Remote App X ≡ 1000, AeroTrak+ Remote Tech Page L DISCONNECT
12. Click SAVE .	Config Alarm Relay Analog Instr Data Passwd Reset
13. Click OK.	Sample Configuration SAVE
	Sample Length (s): 30
	Start Delay (s): 0
	Hold Time (s): 0
	Run Mode: Auto Remotes/app Remotes/app
	Date and Time
	Date (yyyy-m-d): 2018-12-20
	Sync to computer: SYNC
14. Set date and time.	RemotesApp
15 Click SAVE	
15. CHCK SAVE.	Success. Date and time saved to instrument.
	OK
16. Click OK.	AeroTrak- Remote App
17 Coto Alarm tab	😑 🎲, AeroTrak+ Remote Tech Page 🔛 🏦 🛨 DISCONNECT
17. Go to Alar III tab.	Config Alarm Relay Analog Instr Data Passwd Reset
18. To save the instruments alarm	SAVE
settings, click SAVE .	Rollina Buffer Lenath (1-60): 60
19. When Alarm Settings are saved,	Channel Size (um) Threshold (5) Sample (Off/On) 1-Sec (Off/On)
click OK.	Ch 1 0.3 0
	Ch 2 0.5 130 🗨 💭
	Ch 3 5 20 🔷 💭
	Ch4 10 0
	Remote:App
	RemotesApp

ALARM CONFIGURATION	
Rolling Buffer Length (1–60)	Number of 1 sec samples for the Rolling Buffer
	Cubic Feet.
	Default Value: 60
	(Refer to <u>Instant Alarm Setup</u> .)
Size (µm)	AeroTrak+ Remote Particle Counter with Pump size channel.
Threshold (Σ)	Particle counts alarm level. These fields can be overwritten by FMS 5.5 if Upper Alarm settings in FMS are set to Enabled .
Sample (Off/On)	Turned ON will trigger an internal relay for regular sample alarm.
1-sec (Off/On)	Turned ON will trigger an internal relay for
	1 second sample alarm.
	(Refer to <u>Instant Alarm Setup</u> .)

- 20. Click **Relay** tab.
- 21. To save the instruments relay settings, click **SAVE**.
- 22. When **Relay Settings** are saved, click **OK**.

Alarm	Relay (Off/On)	Alarm	Relay (Off/On) SAVE	
0.3		Flow Alert		
0.5	-	Laser Alert		
5	-	Laser Scatter		
10		Ambient Conditions		
		Instrument Error		
		Calibration Corrupt		

RELAY CONFIGURATION		
Flow Alert	Isokinetic probe may be capped or blower is unable to deliver the required flow (0.1 cfm).	
Laser Scatter	Too much light scatter in the chamber caused by contamination in the optics chamber or excessive exposure to cleaning fluids or vaporized hydrogen peroxide.	
Ambient Condition	Device temperature is exceeded.	
Calibration Corrupt	Calibration data corrupted.	
Laser Alert	Laser diode defect (i.e., laser current drastically increased.	
Instrument Error	Triggered if one of the above conditions happens.	
Alarm Size Chan 1	Select which size channel triggers the internal relay.	
Alarm Size Chan 2	Select which size channel triggers the internal relay.	
Alarm Size Chan 3	Select which size channel triggers the internal relay.	
Alarm Size Chan 4	Select which size channel triggers the internal relay.	
Alarm Size Chan 5	Select which size channel triggers the internal relay.	
Alarm Size Chan 6	Select which size channel triggers the internal relay.	

23. Go to Instrument tab.	AeroTrake Remote App
24. To save the instrument settings, click SAVE .	Config Alarm Relay Analog Instr Data Passwc Reset
25. When Instrument Settings are	Instrument Settings SAVE
saved, click OK.	Static IP Address: 192.168.1.61 DHCP (Off/On)
	Static IP Mask: 255.255.0 Static IP Gateway: 192.168.1.1
	Multicast Address: 239 100 100 1 Multicast (Off/On):
	Multicast Port: 5000
	SNTP IP Address: 255 255 255 255 SNTP (Off/On)
	SNTP Time Zone: UTC Offset: 0.0
	Modbus Map Version: [2x •]
	Location Name: ROOM_100
	Seconds before Flow Error (10-60): 10
	Seconds before Flow Block Err (0-60): 10 RemotesApp
	Seconds between FB Error and Pump Off (60-3600): 20 Success. Changes saved to instrument.
	Number of Flow Block Repeats (1-100):

INSTRUMENT SETTINGS	
DHCP (Off/On)	When DHCP (Dynamic Host Configuration Protocol) is turned ON ,
	AeroTrak+ Remote Particle Counter with Pump will receive network
	configuration from a DHCP Server.
	In such case, Static IP Fields will be grayed out.
Static IP Address	Device TCP/IP address.
Static IP Mask	Subnet mask.
Static IP Gateway	Default gateway for the subnet mask.
Multicast Address	IP Address used by FMS to search for AeroTrak+ Remote Particle Counter with Pump.
	Default : 239.100.100.1
Multicast Port	TCP port used by the multicast address.
	Default : 5000
Multicast (Off/On)	Enabled/disabled use of multicast address on the network.
SNTP (Off/On)	SNTP (Simple Network Time Protocol) when turned ON , will allow AeroTrak+ Remote Particle Counter with Pump to automatically synchronize internal date and time against a Domain NTP Server.
SNTP IP Address	IP Address of SNTP Server.
	Example : time.windows.com at 52.168.138.145
SNTP Time Zone	SNTP Protocol is using UTC time. When SNTP is turned ON , an offset, against GMT time, has to be set related to the time zone where the instrument is installed.
Modbus Map Version	TSI Modbus [®] Register Map version used.
	Select Version 2.5 with use of FMS 5.5 or above.
	Select Version 1.0 with use of FMS prior to FMS 5.5.
Location Name	Location where the AeroTrak+ Remote Particle Counter with Pump is installed. Spaces are not allowed.
Seconds Before Flow	Time (in seconds) until instrument goes into a flow error.
Error	Value: 10 to 60 sec

INSTRUMENT SETTINGS	
Seconds Before Flow	Time (in seconds) after a flow error until flow block error occurs.
Block Error	Value: 0 to 60 sec
Seconds Between Flow Block Error and Pump	Time (in seconds) after a flow block error until instrument turns off pump and a flow block error occurs.
Off	Value : 60 to 3600 sec
Number of Flow Block	Number of cycles to try to restart the pump.
Repeats	Value : 1 to 100

- 26. To Review stored **Sample Data**, click **Data** tab.
- 27. **Regular Sample Data** can be exported for review.

First, a CSV file has to be created prior to viewing **Regular Sample data**.

- a. Click **REGULAR DATA FILE PATHNAME**.
- b. Select a folder where the CSV file will be located and enter a **File Name**.
- c. Click Save.
- 28. Select **All Samples** to export all sample data stored in the AeroTrak+ Remote Particle Counter with Pump or select **Last 'N' Samples** to export the last 'N' Samples stored in the instrument (in this case the number of samples you want to export must be entered in **Count**).
- 29. Click **GET RECORDS**. Selected **Regular Sample Data** records will be saved in the CSV file.
- 30. If required to change Tech password, click **Password** tab.
- 31. Change Tech **Password** and click **SAVE**.



IMPORTANT NOTE

FMS Software prior to version 5.5 uses the password **admin.** Changing the password can affect FMS functionality or other system using Modbus[®] Map version 1.5.

- 32. Before quitting the AeroTrak+ Remote Particle Counter with Pump **Tech Page,** you can **Export** ALL the settings of the instrument for further use (i.e., to quickly configure another instrument).
- 33. To do so, click icon to select a location to store the configuration and enter a file name.
- 34. When instrument setup is finished, return to **Main Page**.
 - a. Go to **Menu**.
 - b. Click Main Page.
- 35. **Main Page** will show the new settings of the instrument.
- 36. If the AeroTrak+ Remote Particle Counter with Pump is powered up only through the USB-C cable, a red bell will be shown on top of the window because the pump cannot be started.
- 37. If the instrument is connected to a PoE+ switch, the pump will start.
- 38. Verify **ALL** your settings.



🔹 💰 AeroTrak+ Remote Main P	Page 🛛	DISCONNECT		$\equiv \sqrt{2}$	AeroTr	ak+ Remote Mair	n Page	2	DISCONNECT	
Counts Instrument Firmware Version: Last Cal Date (yyyy-mm-dd): Nominal Flow (lpm):	Communication 0.36 2018-01-01 2.83	Instrument Infor Model: Serial: Location Name: Date:	mation 6301 630103 ROOM_100 2018-11-30 (yyyy-mm.dd)	IP Addre IP Mask: Multicast	Counts ss: t Addr:	s Instrument 192.168.1.61 255.255.255.0 239.100.100.1	Communicati DHCP: IP Gateway: Multicast:	OFF 192.168.1.1 ON	Instrument Info Model: Serial: Location Name: Date:	mation 6301 630103 ROOM_100 2018-11-30 (yyyy-mm-dd)
Laser Run-Time (hrs):	49.49	Time:	08:10:54	Multicast	Port:	5000	CNTD:	055	Time:	08:11:44
Laser Current (mA):	72.47	Status		Time Zor	ne:	(UTC Offset) 0.0	SNIP.	OFF	Status	
Background Light Level:	0.19	Alarm: Current Flow (I Run Mode:	Ch om): 2.82 AUTO	MAC Ad	dr:	0:30:20:0:0:1	Modbus Ver:	Ver 2	Alarm: Current Flow (I Run Mode:	pm): 2.84 AUTO
		Sample Length Start Delay (s): Hold Time (s):	(s): 60 0 0						Sample Length Start Delay (s): Hold Time (s):	(s): 60 0 0

 39. If required, you can generate a PDF file report with ALL the AeroTrak+ Remote Particle Counter with Pump settings. a. Go to Menu. b. Click Report. 	Actor/fake-Remote App Cemote Main Page Disconnect Menu temote Main Page Disconnect Main Page Instrument Communication Model: 6301 Tech Page (will stop sampling) 192.168.1.61 DHCP: OFF Serial: 630103 Location Name: 2010/100.1 Multicast: ON Date: 2018-11-30 About Page 5000 5000 Time: 08:12.22 255.255.255 SNTP: OFF Off C offset) 0.0 0 Off Atom Model: Ch 0.30.20.0.0.1 Modbus Ver: Ver 2 Status Atarm: Ch Current Flow (Ipm): 2.77 Run Mode: Atom Sample Length (s): 0 Sature (s): 0 Model Time (s): 0 Stat Delay (s): 0 Hold Time (s): 0
 40. Complete Configuration Report will be shown. This report can also be saved as a PDF file by clicking icon. 	

41. Select a location to store the PDF file and enter a file name.	AeroTrak+ Remote App
	Instrument Information Model: 63011 Serial #: 630103 Model: 192468.161 Save As Comparise New Folder Corganize New Folder Corganize New Folder Comparise New Folder Control office Implates Control Office Implates Cont
42. When the TSI Remote APP does not detect any activity after 5 minutes, it will automatically close. Before the APP closes, a count-down message will show in the upper right corner after 2 minutes of inactivity.	Counts Instrument Communication Sample# 232 Sample Tm (s) 5 Hold Tm (s) 0 Channel Particle Size (µm) Counts (raw Σ) Model: 6301 Ch1 0.3 117 Ch2 0.5 6 Ch3 5 0 Ch4 10 0 Ch4 10 0 Status Alarm: Current Flow (lpm): 2.83 Run Mode: AUTO Sample Length (s): 10 Statu (s): 0 Hold Time (s): 0

Instant Alarm Setup

1. Go to Alarm tab.	😑 🤹 AeroTrak+ Remote Tech Page 👔 🚹 🛃 DISCONNECT
2. Enter value for Rolling Buffer Length , default Value is 60 sample of 1 second.	Config Alarm Relay Analog Instr Data Passwd Reset
3. Turn On the 1-Sec for the requested Size Channel.	Rolling Buffer Length (1-50): 60 Channel Size (μm) Threshold (Σ) Sample (Off/On) 1-Sec (Off/On) Ch 1 0.3 0 • •
4. Click SAVE button.	Ch2 05 0 10 Ch3 5 0 10 Ch4 10 0 10
5. DO NOT enter a value for Threshold (Σ) if you want to use Instant Alarm from FMS as this value will be overwritten.	AeroTrake Remote App
NOTE: If 1-Sec is not turned On for a selected Size Channel no Instant Alarm will be broadcast to FMS.	Rolling Buffer Length (1-60): 60 Channel Size (μm) Threshold (Σ) Sample (Off/On) 1-Sec (Off/On) Ch 1 0.3 0 0 0 0 Ch 2 0.5 0 0 0 0 Ch 3 5 0 0 0 0 Ch 4 10 0 0 0 0
6. Go to Relay tab.	
 For the previous selected Size Channel turn On the Relay (On/Off). 	Config Alarm Relay Analog Instr Data Passwd Reset
 8. Enter in Relay Delay the number of consecutive 1 Second Sample to trigger the Relay. 9. Click SAVE button. 	Alarm Relay (Off/On) Alarm Relay (Off/On) SAVE 0.3 Flow Alert Image: Constraint of the second se
	Instrument Error Instrument Error Calibration Corrupt Image: Calibration Corrupt Relay Delay (Number of samples before relay is triggered)

IMPORTANT NOTE

Instant Alarm can only be setup along with FMS 5.5.1 or above.

Instrument Setup with 4-20 mA Output Option

- 1. Before setting the 4-20 mA outputs, **ALL** other settings as described in this section should be done.
- 2. To configure the 4-20 mA output when option is installed, go to **Analog** tab.
- 3. To save the instruments analog settings, click **SAVE**.
- 4. When **Analog Settings** are saved, click **OK**
- 5. Continue AeroTrak+ Remote Particle Counter with Pump setup from <u>Instrument</u> page.

Config Alarm Relay	Analog Instr Data Passwd Reset
Analog Out Settings	SAVE
Ch A bin channel:	0.3 0.5 0 5 0 10
Ch B bin channel:	0.3 0.5 0 5 0 10
Ch A Scale:	Ch B Scale:
O Linear Scale 10	O Linear Scale 10
O Linear Scale 100	O Linear Scale 100
O Linear Scale 1000	O Linear Scale 1000
O Linear Scale 10000	O Linear Scale 10000
O Linear Scale 100000	O Linear Scale 100000
O Linear Scale 1000000	O Linear Scale 1000000
O Linear Scale 10000000	O Linear Scale 10000000
O Linear Scale 100000000	O Linear Scale 100000000
O Linear Scale 100000000	O Linear Scale 100000000
Log Scale	Log Scale

ANALOG OUT SETTINGS			
Ch A bin Channel	Select which size channel will output on Analog 1.		
Ch B bin Channel	Select which size channel will output on Analog 2.		
Ch A Scale	Select a Linear Scale or Log Scale for Size Channel A.		
Ch B Scale	Select a Linear Scale or Log Scale for Size Channel B.		

Saving Configuration Settings as a Template

 When AeroTrak+ Remote Particle Counter with Pump is setup, ALL the settings stored in the instrument can be exported to an XML file to be used later for a quick configuration. NOTE: Be aware that the XML file will store the TCP/IP address of the AeroTrak+ Remote Particle Counter with Pump. When importing from such template, it will be REQUIRED to change the IP 		▲ AeroTrak+ Remote Tech Page ▲ ▲ ▲ DISCONNECT Config Alarm Relay Analog Instr Data Password Sample Configuration SAVE Sample Length (s): 60 Start Delay (s): 0 Hold Time (s): 0 Run Mode: ● Auto Date and Time SAVE Date (yyyy-m-d): 2018-12-16 Time (hh:mmss): 09.44.27 Sync to computer: SYNC
2.	AeroTrak+ Remote Particle Counter with Pump, otherwise duplicate TCP/IP addresses will be generated on the network. To save the settings in a template, while you are on the Config page, click Up Arrow icon.	Sare A: 49 Sourch Destage P Organia: New Folder 101 P Destap Barris Barris Barris Documents Barris Barris Barris Mack Protos System Folder Barris Windows (c) Windows (c) Windows (c) Barris Barris Windows (c) Windows (c) Barris Bariris B
3. 4.	Click Save . When exporting configuration is finished, click OK .	AeroTrak+ Remote Tech Page Aero AeroTrak+ Remote Tech Page Sample Length (s): 30 Start Delay (s): 0 Held Time (s): 0 Held Time (s): 0 Auto Auto Manual Date and Time SAVE Date (yyyy-m-d): 2018-12-20 Time (h::mn:ss): 05-42 03 Sync to computer: SYNC Excess Cenfig sived to file Isoccess Cenfig sived to file Isoccess Cenfig sived to file Isoccess Cenfig sived to file

Resetting the Instrument

If required to reset the AeroTrak+ Remote Particle Counter with Pump values to the default values follow the process below.

1. To reset the instrument to manufacturing defaults values, click **Reset**.

¶ € , A	eroTrak+ Remote App	- 0 X
≡	E 🞲 AeroTrak+ Remote Tech Page 🗾 🚹 🛃 disconnect	
	Config Alarm Relay Analog Instr Data Passwd Reset	
	Reset all values in instrument to manufacturer defaults	

2. Default manufacturing values are as follows.

Description	Default Value
IP Address	192.168.200.90
IP Mask	255.255.255.0
Gateway address	192.168.200.1
Location	LOCATION
Sample Length	60
Sample Start Delay	0
Sample Hold Time	0
Run Mode	AUTO
Rolling Buffer Length	60
Channel 1 to 6 Threshold (Σ)	0
Channel 1 to 6 Sample	OFF
Channel 1 to 6 1-second Alarm	OFF
Channel 1 to 6 Relay	OFF
Flow Alert Alarm Relay	OFF
Laser Alert Alarm Relay	OFF
Laser Scatter Alert Relay	OFF
Ambient Conditions Relay	OFF
Instrument Error Relay	OFF
Calibration Corrupt Relay	OFF

(continued on next page)

Description	Default Value
Analog Out ChA Selection	1 (Size Channel 1)
Analog Out ChB Selection	2 (Size Channel 2)
ChA Scale Selection	0 (log scale)
ChB Scale Selection	0 (log scale)
DHCP	OFF
Multicast IP Address	239.100.100.1
Multicast Port	5000
Multicast Enabled	ON
SNTP IP Address	10.1.0.249
SNTP Enabled	OFF
SNTP Time Zone	0
Modbus [®] Map Version	2.x
Seconds Before Flow Error (10–60)	1
Seconds Before Flow Block Error (0–60)	30
Seconds Between Flow Block Error and Pump Off (60–3600)	600
Number of Flow Block Repeats (1–100)	10

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