thermo scientific

Instruction Sheet

Thermo Scientific Orion Star T900 Series Titrator Computer Software

Thermo Scientific[™] Orion Star[™] T900 series computer software is designed to work with Orion Star T910 pH, T920 redox, T930 ion and T940 all-in-one titrators. The computer software facilitates the transfer of method, titration, standardization, calibration and direct measure data from your Orion Star T900 series titrator to a computer for data viewing, data backup and report generation.

For comprehensive information on titrator setup, operation and advanced features, refer to the titrator user manual on <u>www.thermofisher.com/titrator</u>.

IS-T900PCSW-E Revision B

Revision Date: November 15, 2019

System Requirements

- The titrator must have software revision V3.3.0 or higher installed to communicate with the computer software
- Microsoft[®] Windows[®] 7 and higher computer operating systems are supported
- The computer should have the latest Windows updates installed
- The operator must have administrative computer access to use the computer software

Connecting Your Titrator to a Computer

The titrator connects to a computer via a virtual Ethernet over USB connection.

- 1. Ensure the titrator has the latest software revision and then power on the titrator.
- 2. Using the computer cable included with the titrator, connect the type B (square) end of the USB cable to the USB B connector on your titrator. Then connect the type A (rectangular) end to any available USB type A connector on your computer.



3. Windows should automatically detect the titrator and install the required driver, which may take a few minutes when you connect a titrator for the first time. You do not need to manually download or install any drivers, as the required RNDIS driver is included with Windows operating systems.

Installing the Computer Software

- 1. Download the computer software at <u>www.thermofisher.com/orionsoftware</u>, save the file to any convenient location on the computer and unzip/extract the folder to the same location on the computer.
- 2. Double click the **setup.exe** file to launch the installer.
- 3. If you have anti-virus software installed, it may not recognize the software. If any warnings appear, click to allow the files to install.
- 4. Follow the on-screen instructions to finish installing the computer software.
- 5. Once the software is installed, an OrionStarT900 icon will appear on your desktop. Double click this icon to launch the computer software.

- 6. When launching the software for the first time, you may see a message from the Windows firewall regarding what types of networks to allow. It is recommended that you select all network types before clicking "allow access". The RNDIS network over USB connection is considered a "public" network by Microsoft and the computer software must be allowed to access public networks to function.
 - a. See the following screenshot as an example:

💣 Windows Secu	urity Alert		×
Windo app	ws Defend	er Firewall has blocked some features of this	
Windows Defender and domain networ	Firewall has blo ks.	cked some features of orionstart900.exe on all public, private	
	Name:	orionstart900.exe	
	Publisher:	Unknown	
	Path:	C:\program files (x86)\orionstart900\orionstart900.exe	
Allow orionstart900).exe to commu vorks, such as a vorks, such as m	nicate on these networks: workplace network y home or work network	
Public netwo because the	rks, such as the se networks oft	se in airports and coffee shops (not recommended en have little or no security)	
What are the risks	of allowing an a	pp through a firewall?	
		Allow access Cancel	

- b. If your company has 3rd party firewall software or other non-standard configuration, you may need to contact your IT department to make sure the connection is allowed. The software will not function if it cannot connect to the RNDIS network.
- 7. Restart your computer to ensure the Orion Star T900 series computer software is fully installed before opening the program.

Using the Computer Software

Note: The computer display size of text and other items on your screen must be set to the default percentage to properly view the computer software.

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	See also			Apply	
	Personalization				
	Devices and Printers				

- 1. Double click the OrionStarT900 icon on your desktop to launch the computer software.
 - a. When launching the software for the first time, you may see a message from the Windows firewall regarding what types of networks to allow. It is recommended that you select all network types before clicking "allow access". The RNDIS network over USB connection is considered a "public" network by Microsoft and the computer software must be allowed to access public networks to function. See the following screenshot as an example:

🔐 Windows Secu	urity Alert		\times
Windo app	ws Defend	ler Firewall has blocked some features of this	
Windows Defender and domain networ	Firewall has blo ks.	ocked some features of orionstart900.exe on all public, private	
	Name:	orionstart900.exe	
	Publisher:	Unknown	
	Path:	C:\program files (x86)\orionstart900\orionstart900.exe	
Allow orionstart900).exe to commu vorks, such as a	nicate on these networks: a workplace network	
Private netw	orks, such as m	ny home or work network	
Public netwo because the	rks, such as the se networks off	ose in airports and coffee shops (not recommended ten have little or no security)	
What are the risks	of allowing an a	app through a firewall?	
		Allow access Cance	el

- b. If your company has 3rd party firewall software or other non-standard configuration, you may need to contact your IT department to make sure the connection is allowed. The software will not function if it cannot connect to the RNDIS network.
- 2. Once you select your language, the software will open to the "home" screen. The home screen shows a list of all titrators you have previously connected to, along with their serial number, instrument name and connection status.
 - a. It takes a few moments for newly connected titrators to be visible on the network. Wait a few moments and then press the "Refresh" icon.

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Home	
	C Refresh
Serial No: T10001 Titrator Name:Mr T Version:V3.1.0 Connection Status:Connected	>
Serial No: T10004 Titrator Name:940 Version:V3.1.0 Connection Status:Connected	>
Serial No: T10040 Titrator Name:P3 Version:V3.1.0 Connection Status:Connected	>
Serial No: T10010 Titrator Name:T10 Version:V3.1.0 Connection Status:Connected	>
Serial No: T10011 Titale Nome Medical	

3. Click on the desired titrator to access its Logs screen.



- 4. Click the "Import" button to download the selected titrator's data as a history file. Once a history file has been downloaded, you can view it again at any time without connecting to the titrator.
 - a. Press the "Import" button again to download a new history file when updated data is available on the titrator.

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5. Click on a history file to open it and browse the titrator data. You can return to the home screen at any time by clicking "Home" in the upper navigation bar.

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- 6. Click the Titration tab to view the titration data. Expand the summary line to view the individual cycle data. Click on an individual cycle data line to view its data, graph results and setup parameters.
 - a. Scroll right to view all data associated with the individual cycle data lines.

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	^	57	1/24/2019 4:39 PM			14.46 mg/L		100.000 mL	Ca Hard user2	2	
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	~	54	1/24/2019 3:56 PM			102.1 mg/L		10.000 mL	Ca Hard user2	Titrant Parameters	Titration Parameters
	~	53	1/18/2019 4:03 PM			101.3 mg/L		10.000 mL	Ca Hard user2	Titrant Name :	EDTA
	~	52	1/18/2019 3:43 PM			14.19 mg/L		50.000 mL	Ca Hard user2	Titrant Id : Conc. Input Mode :	June 11 2018 Standardization
	~	51	1/18/2019 3:01 PM			67.01 mg/L		10.000 mL	Ca Hard user2	Conc. Input Mode Manua Nomial Conc :	al Entry : 9.585 mM 9.585 mM
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Orion Star T900 Series Computer Software

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- 7. Click the Standardization tab to view the titrant standardization data. Expand the summary line to view the individual cycle data. Click on an individual cycle data line to view its data, graph results and setup parameters.
 - a. Scroll right to view all data associated with the individual cycle data lines.

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~	7	12/20/2018 3:34 PM		9.571 mM		1.000 g	Ca Hard user2	ISE-Titration	Titrant Name :	EDTA	1
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~	5	12/14/2018 1:52 PM		48.31 mM		5.000 g	Ca Hard user2	ISE-Titration	Nomial Conc :	9.585 mM	
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- 8. Click the MKA tab to view the multiple known addition data. Expand the summary line to view the individual cycle data. Click on an individual cycle data line to view its data, tabular results and setup parameters.
 - a. Scroll right to view all data associated with the individual cycle data lines.

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#	Run Date	Incl. in Avg	Sample Conc.	Electrode Slope	Precision	Spike Recovery	RSD	# Vol.(ml.) Conc. F(mV) Precision
▲ 43	10/26/2018 4:10 PM	3	307.9 mg/100g		Level		7.53%	0 0.000 0.000 -85.1 1 0.303 356.111 -70.4	-
1	10/26/2018 7:26 PM	Yes	324.3	59.2 mV/dec	1.5 %	100.1 %		2 0.576 335.709 -60.8 3 0.989 327.286 -51.3	- 3.7%
2	10/26/2018 7:31 PM	Yes	291.5	59.2 mV/dec	1.1 %	100.3 %		4 1.611 324.283 -41.8	1.5%
✓ 42	10/26/2018 3:22 PM	2	275.5 mg/100g				0.56%		
✓ 41	10/23/2018 4:29 PM	5	329.8 mg/100g				2.37%		
✓ 40	10/23/2018 12:22 PM	3	342.2 mg/100g				1.16%	Setup Parameters Titrant Parameters	tion Parameters
✓ 39	10/23/2018 12:10 PM	3	329.0 mg/100g				1.99%	Titrant Name i	udium (No.1)
✓ 38	10/19/2018 3:37 PM	3	338.5 mg/100g				2.58%	Titrant Id :	Own
	10/19/2018 2:33 PM	1	142.5 mg/100g				0.05%	Titrant Concentration Value . Titrant Reaction Ratio :	1 M
V 3/								Titranii Greated At . 10/20/2	016 3:03 PW
✓ 37✓ 36	10/19/2018 2:16 PM	7	71.74 mg/100g				0.0%		
 37 36 25 rionStarT900 	10/19/2018 2:16 PM		71.74 mg/100g				0.0%		
 ✓ 3/ ✓ 36 ✓ 95 rionStarT900 rme Logs 	10/19/2018 2:16 PM 10/10/2019 2:00 DM Settings V Abo	7 sut Help	71.74 mg/100g			_	0.0%		
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 37 36 35 36 36 37 36 37 36 37 36 37 3	10/19/2018 2:16 PM 10/10/2018 2:00 PM Settings Abo OGS orted on 1/28/2019 Standardization	out Help 1:38 PM MKA	71.74 mg/100g 165 E mg/100g Calibration	Aeasurement	T9 Methods	_	0.0%	Search Search Search Graph Tabular Data	– O Print
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lectrode Name	Titrant Name	Titrant Conc.	Sample ID	Blank Conc.	Duration	Volume(mL)	End Point Value(mV)	# Vol.(mL) Conc.	E(mV) Precision
WU	Sodium (Na+)	1.000 M	Peas	0.00000 M				1 0.303 356.111	-70.4 -
					00:02:34	0.696	-61.9	3 0.989 327.286	-51.3 3.7%
					00:02:01	0.517	-68.8	4 1.011 324.203	*41.0 1.3%
WU	Sodium (Na+)	1.000 M	Peas	0.00000 M					
WU2 11138	Sodium (Na+)	1.000 M	Green beans	0.00000 M					
WU2 11138	Sodium (Na+)	1.000 M	Green beans	0.00000 M				Setup Parameters	Titration Parameters
WU2 11138	Sodium (Na+)	1.000 M	Green beans	0.00000 M				Titrant Name	Sodium (Na+)
WU2 11138	Sodium (Na+)	1.000 M	Green beans	0.00000 M				Titrant Id : Titrant Concentration Value	Own 1 M
WU2 11138	Sodium (Na+)	1.000 M	Corn 50 low	0.00000 M				Titrant Reaction Ratio : Titrant Created At : 10	1 1/26/2018 3:03 PM
WU2 11138	Sodium (Na+)	1.000 M	Corn 50 low	0.00000 M					,, 10 0.00 1 11
W/10 11100	Sodium (No+)	1 000 M	Com 50 low	0.00000 M					

9. Click the Calibration tab to view the calibration data. Expand the summary line to view the individual calibration point data.

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	Ti	tration	Standardization	МКА	Calibration	Measurement	Methods				
		#	Read Mode	Sensor Name	Slope / Redox Offset	ISE type	Run Date/Time	Temp.	pH / Concentration	mV Reading	
	^	11	ISE	TP1	58.0 mV/dec	Sodium (Na+)	10/26/2018 2:06 PM	ATC			
		1			57.2 mV/dec		10/26/2018 2:06 PM	25.0 C	10.000	-158.7	
		2			58.9 mV/dec		10/26/2018 2:06 PM	25.0 C	100.000	-101.5	
		3			59.2 mV/dec		10/26/2018 2:06 PM	25.0 C	1000.000	-42.7	
	~	10	ISE	TP1	57.8 mV/dec	Sodium (Na+)	10/23/2018 11:49 AM	ATC			
	~	9	ISE	TP1	58.5 mV/dec	Sodium (Na+)	10/23/2018 11:29 AM	ATC			
	~	8	ISE	TP1	58.1 mV/dec	Sodium (Na+)	10/19/2018 11:38 AM	ATC			
	~	7	ISE	TP1	54.1 mV/dec	Sodium (Na+)	10/18/2018 3:11 PM	ATC			
	~	6	ISE	TP1	56.8 mV/dec	Sodium (Na+)	10/17/2018 2:12 PM	ATC			
	~	5	ISE	TP1	55.5 mV/dec	Sodium (Na+)	10/17/2018 1:46 PM	ATC			
	~	4	ISE	TP1	57.6 mV/dec	Sodium (Na+)	9/6/2018 3:52 PM	ATC			

10. Click the Measurement tab to view the direct measure data. Scroll right to view all data associated with the direct measure data lines.

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#	Read Mode	Scaled Value	Millivolts(mV)	Temp.	Temp. Input(MAN/ ATC)	Sensor Name	Sample ID	Stir Speed	Resolution	Buffer Group	
2	ISE	9999.0	88.7	25.0 C	MAN	TP1	None	Medium	0.001	USA	S
1	ISE	9999.0	88.7	25.0 C	MAN	TP1	None	Medium	0.001	USA	S
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History I Data Count: Titrati Temp. 25.0 C	LOGS Imported on 1 : 2 Standar Temp. Input(MAN/ ATC) MAN	/28/2019 1:38 F rdization MK/ Sensor Name TP1	2M Calibrat Sample ID None	ion Meas Stir Speed Medium	surement Resolution 0.001	T9 Methods Buffer Group USA S	ISE Type Sign Di sodium (Na+)	ificant Direc gits 4	Search Export t Measure Units ppm 12	Print Run Date (13/2018 1:24 PM	Q
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11. Click the Methods tab to view the methods data. Click on an individual method line to view its electrode, titrant and titration setup parameters data.

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History Imported Data Count: 6	on 1/28/2019 1:	38 PM	Т9		📩 Export	🗎 Print
Titration	Standardization	MKA Calibration	Measurement Methods	Electrode	Titration	Titrant
#	Method Name	Method Created Date/Time	Method Updated Date/Time	Electrode Name	: VX1	
6	MT hard	12/28/2018 10:20 AM	1/8/2019 3:58 PM	Buffer Group	:	
5	Ca Hard user2	11/28/2018 4:12 PM	1/24/2019 4:39 PM	IsType	: 0.001 : Calcium (Ca2+) : 4 : ppm	
4	Total Hardness	11/7/2018 2:53 PM	11/7/2018 2:53 PM	Direct Measure Unit		
3	Na MKA new	10/26/2018 3:03 PM	10/26/2018 4:10 PM	Electrode Created At	: 12/14/2018 1:23 PM	
2	Na MKA User	8/8/2018 3:16 PM	8/8/2018 3:16 PM			
1	Na MKA	8/6/2018 6:49 PM	10/23/2018 4:29 PM			

12. Click the "Export" button to save the data to your computer as a PDF or CSV file.

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13. Click the "Print" button to print the data to your default network printer.

Technical Support

For any questions or if you require assistance, please contact your local Technical Sales Representative, Product Specialist or Technical Support Team.

Americas Technical Support Team 1-978-232-6000

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