

trumeter



APM Configurator Installation Guide

	Trumeter Voltmeter	APM Configurator			
File APM About		Output 1 Octover 1 Development	Deserved		
Input Signal Display Range	Display Scalar	Output 2 Backlight	(Response		
Auto ranging Eixed	None User	 Digital Output 		Output 1	
Min 0 Max 600	Scale 1 Offset 0	4 to 20mA 4 mA	Current occurs at	200	Volts
Display Peak Bar	Display Zero	0 to 20mA 20mA	A Current occurs at	400	Volts
	Display Zero if below this	Switch Output) On	When the display	red value is
	threshold value 0 Volts		Off Off	Above	360
		Change Backlight	Off	Between	000
		Flash	Red	O Outside	
		Steady	Green		
			White	Hysterisis (of full	scale)
Displayed Message		Show Message		0%	50%
onopia) ou mocougo		OP	1	1%	
Default Display Message	VOLT	NOTE For Backlight and	Messages Output	2 has priority over	Output 1
/ Statusisconnaste				,	
a statusisconnecte					
					-

Go to www.truAPM.com for further information



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For more information about our company and products, please visit our web site.

Go to www.truAPM.com for further information



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1.04	Amendments from NH	Philip Tory	30 Sept 2014	



Introduction

The Trumeter APM Configurator software allows you to programme and download individual custom configurations onto your APM meters. You can set the range, display colour, warning levels etc. Custom configurations are stored in non-volatile Flash Memory.

APM Configurator runs on almost any PC running Windows XP, Vista, 7 or 8, 32-bit or 64-bit.

Key Features



APM meters feature the following:

- High accuracy
- Digital and analogue displays
- High contrast, excellent visibility
- Wide-angle display no parallax errors
- Set points to trigger an alarm display if a preset threshold is reached, e.g. change colour, flash and/or give a message
- "Output" models (AXO) can switch a signal to external devices or equipment when the threshold is reached.

Through the **APM Configurator software** you can configure:

- The screen background colour;
- Flash or change the backlight colour, and display on-screen messages at a user-defined setpoint (trigger threshold);
- Bar graph scale: positive, centre zero or negative, and more;
- 4-character programmable display. Show a default label/message, or show the Span and Offset (applied to the input signal).

For more information, see <u>www.truapm.com</u>.

Minimum system requirements

The APM Configurator software installs directly onto a Windows-based PC. It is not intended to install over a network or run from a server. The APM Configurator software needs:

- a PC or laptop running Windows XP, Vista, 7 or 8 operating system, 32- or 64-bit
- Microsoft .NET Framework. (If you don't have this, you can download it from <u>www.microsoft.com/net</u>).
- A spare USB 2.0 port
- An internet connection for initial software installation and updates.
- A USB cable with Type A to Type B connectors:





How to install the software

Each model of APM meter (Volts, Amps, Frequency, etc) has its own specific **APM Configurator software**, therefore there are two stages to the installation process.

Stage 1: Firstly, you download the **APM Device Selector** software from our web site and install it on your target PC.

Stage 2: Next you use the APM Device Selector to detect your APM device(s), so that it can then download the correct **APM Configurator software** for your device(s).

Stage 1: Register and download the APM Device Selector software

www.truapm.com website > REGISTER FOR SOFTWARE > ...

You need an internet connection so that you can download the APM Device Selector software from our web site.

- We recommend that you go into Windows Explorer, and create a suitable folder where you can save the installation file and any future updates.
- To download the software, open an internet browser and go to www.truapm.com.
- At the top right of the screen, click on **REGISTER FOR SOFTWARE**. (For smaller screen resolutions, look for "**Menu**" on the orange bar at the top. Click on this and then select **Register for Software**.)

The Register to Download Software screen appears:

innovation by design	A SHEETS REGISTER FOR SOFTWARE CONTACT US
Register to Download Software	
Name *	
Matthew	Smith
First	Last
Phone *	
05958595857	
Email *	,
matthew.smith@companyname.com	
Region *	, ,
Africa Asia Pacific Austrialasia Europeo East	
Europe - West	
Middle East The Americas	
United Kingdom	
Suprit	
∕∕	

• Fill in your contact details, select your region, and then click the **Submit** button.



Use the Download Link from our email

Our system then sends you an email with a download link.

• Open the email and click the link. This takes you a download page on our web site:



• Click the **Download Software** button, and then click **Run**:

Do you want to run or save APM Configurator.msi (462 KB) from truapm.com?	Run	<u>S</u> ave	•	<u>C</u> ancel	×
	1 1 1				

(If you prefer to save a copy onto your PC, select **Save as**, and save the file to a convenient place on your computer:

	Ellignes	<u>S</u> ave
		Save <u>a</u> s
Do you want to run or save APM Configurator.msi (462 KB) from truapm.com? Run Save	\mathbb{R}_{-}	Save and run
1	<u>}</u>	

The file **APM Configurator.msi** is less than 500 Kb, so it will not take long to download.

 If you see this warning message (or similar): "APM Configurator.msi is not commonly downloaded..." etc –

ľ	~	APM Configurator.msi is not commonly downloaded and could harm your computer. 🛛 🗙	1
Ĺ	Ø	Delete Actions View downloads	I
_		<u>/</u> 2	

- then click on the **Actions** button.



The SmartScreen Filter (or similar) may appear:

SmartScr	reen Filter - Internet Explorer
8	This program might harm your computer
	Publisher: Unknown Name: APM Configurator.msi
	SmartScreen Filter reported that this program is not commonly downloaded and is not signed by its author.
	If you received this program as an unexpected solicitation, link, or attachment, it might be an attempt to fool you. We recommend that you delete it.
	Don't run this program (recommended)
	Delete program
	Run anyway
What's	SmartScreen Filter?

- Click on **Run anyway**. This will start the installation process.
- Alternatively, if you saved the file to disk, go to Windows Explorer, navigate to where you saved the file. Double-click on the **APM Configurator.msi** file.

This installs stage 1, the APM Device Selector.

Installing...

• If you see a Security Warning message like this: "The publisher could not be verified. Are you sure you want to run this software?" –



– then click **Run**.



The APM Configurator Setup Wizard screen appears:



• Click Next. The Select Installation Folder screen appears:

Select Installation Folder	6
he installer will install APM Configurator to the following folder. o install in this folder, click "Next". To install to a different folde <u>F</u> older:	er, enter it below or click "Brov
C:\Program Files (x86)\Trumeter\APM\	Browse

- Now you can select the installation folder. Unless you need to choose a different folder, we recommend that you leave it as the default setting shown. If you want to save it elsewhere, click **Browse** and find the required location.
- Click Next, and the Confirm installation screen appears.
- Click **Next**, and the **Installing APM Configurator** screen appears. The process may take about 30 seconds to install. Wait for it to finish.

When it has finished, the Installation Complete screen appears.

• Click Close.

Check for .NET Framework updates

Now use Windows Update to check for any critical updates to the .NET Framework.

- For example, in Windows 7, go to the **Start** button, click **All Programs**, and then click **Windows Update**;
- or find it in Windows Start > Control Panel > Windows Update.

This completes the first stage installation of the APM Device Selector. You will install the APM Configurator shortly.



Initial setup - test and connect

Next, test the installation. You will need a **USB cable** with Type A and Type B connectors at either end.

 Plug the USB cable between the APM meter and a spare USB port on the PC.



APM

- On the PC, click on the APM Configurator Configurator icon on your desktop.
- Otherwise, go to Start button > All Programs > Trumeter > APM > APM Configurator:



The APM Device Selector screen opens:



Here you will see the detected APM meter(s).

If you have other APM meters connected via different USB ports, you will see them here.

If you see the above screen, showing "Configure APM" then the Device Selector software has installed OK, and is working— it has detected the meter.

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Understanding the screen display

If you have more than one APM connected to different USB ports on the computer, they will appear on the screen. This example shows two APMs connected. One already has its Configurator downloaded and is ready to run, while the other has not, so it is ready to download:

O APM Device Selector	C X
E <u>x</u> it <u>U</u> pdates <u>A</u> bout	
Connected APMs	\frown
APM-AMP-AxO Ammeter	
	M
Configure APM	
	1.0.1.5
Firmware 022120-02-R02 Software 02	2121-02-R02 .::
C	

The APM Configurator software is already downloaded for this meter, so the button shows "Configure APM".



The APM Configurator software has not been downloaded for this meter, so the button shows "Download APM Configurator software".

At the bottom of the screen, you can see the version of the Firmware installed in the selected meter, and the corresponding Configurator software required.

Stage 2: Download the APM Configurator Software

The first time you install the Device Selector on this PC, you will then need to download the APM Configurator software for the connected meter, as follows:

 With the APM device selected, click the Download APM Configurator software button:

O APM Device Selector
E <u>x</u> it <u>U</u> pdates <u>A</u> bout
Connected APM's
APM-VOLT-AxO Volt Meter
Download APM
Configurator software
1.0.1.1
Firmware 022120-01-R03 Software 022121-01-R02



The system then connects to the APM server via the internet, and downloads the corresponding APM Configurator software for the device – in this example, a Voltmeter:



After a few seconds, the **APM Configurator screen** opens for that meter. The type of meter "Voltmeter" shows at the top of the screen, and \boxed{VOLT} in bold, lower down the screen:

jile <u>A</u> PM Abo <u>u</u> t				7
nput Signal		Alarm 1 Alarm 2 Backli	ght Response	•
Display Range	Display Scalar	Analogue Output		Alarm 1
Auto ranging	x1	Alarm Mode		
Fixed	🔘 User			
Min 0 Max 600	Scale 1 Offset 0	4 mA current is equ	al to displayed	value of 0 VOLT
Display Peak Bar Peak Hold	Display Zero	20 mA current is equ	ual to displayed	value of 600 VOLT
	Display Zero if below this	Switch Output 1	@ 0n	
	threshold value 0 VOLT		Off	 Above
	Limit Decimal Places	Change Backlight	C Off	Below 450
		(@) Flash	Red	Between
	3 (0.000)	Steady	🔿 Green	Outside
	© 1 (0.0)		🔿 White	Hysterisis
	© 0 (0)	Show Message		
		ΔΤ. 1		0% [1%] 20%
isplayed Message	VOLT		d Messager O	utput 2 has priority over Output
		NOTE TO Backlight an	u messages, o	utput 2 rids priority over Output

This example is for a Voltmeter.



Install for the next Meter Type

Suppose you also need to configure another meter type, such as an Ammeter. Leave the APM Configurator window open.

• Unplug the USB cable from the voltmeter and plug it into the ammeter.

In a few seconds, the **APM Device Selector** display changes to indicate the new meter type—in this example, an **Ammeter**:

🗿 APM	Device Sel	ector		ß	x
Exit	<u>U</u> pdates	<u>A</u> bout			
Conr	nected APM	s			1
AP	I-AMP-AxO) Ammeter			
		Configure APN	1		
				1	.0.1.1
					.::

• As before, click to select the meter, and then click the **Configure APM** button.

This downloads the Ammeter interface. Then the **APM Configurator screen** opens, indicating at the top that this is for an Ammeter, and **AMPS** lower down the screen:

put Signal		Alarm 1 Alarm 2 Backlight Res	ponse
Display Range	Display Scalar	Analogue Output	Alarm 1
 Auto ranging Fixed 	● x1 ◎ User	Alarm Mode	
Min 0 Max 5 Display Peak Bar	Scale 1 Offset 0	4 mA current is equal to disp 20 mA current is equal to disp	layed value of 0 AMPS
Peak Hold	Display Zero		
External Sensor	Display Zero if below this	Switch Output 1 On	When the displayed value is
None CT Shunt Primary Secondary	threshold value 0 AMPS	O Off	Above 275
5 5	Limit Decimal Places	Change Backlight	Below 5.75 Between
Current mV 5 6	3 (0.000)	Steady O Gr	een Outside
	© 1 (0.0) © 0 (0)	© W	ite Hysterisis
		Show Message	0% 1% 20%
splayed Message	(AMPS)	AL 1	

This example APM Configurator screen is for an Ammeter.



What Software Updates are available for my meter?

It is good practice to **check for updates** from time to time—there may be updates available for each meter type that you have. You may already have downloaded updates that are stored on the PC, or there may be more recent updates available now.

- Go to the APM Device Selector screen.
- ① Click to select the required meter.
- 2 select menu > Updates >
 3 Check for updates:



• The APM Information screen appears:

APM Derived Information			
Function		APM-VOLT-Ax	O Volt Meter
APM Firmware Version Installed		022120-01-R0	4
Configurator Software Version Required		022121-01-R0	2-XX
Check online for available Updates			
APM Firmware Update Information			
atest APM Firmware Version already Jownloaded and ready to Install	None Available		[Install]
Latest APM Firmware Version available to download from the Internet	Check Online fo	r updates	Download
Configurator Software Update Information			
Configurator Software Version Installed	No Software ins	talled	
Latest Configurator Software version for currently installed APM firmware	Check Online fo	rupdates	Download
Latest Configurator Software version after APM firmware has been updated	Check Online fo	r updates	Download

Example

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APM Derived Information	 This shows you information about the selected APM meter: (a) Function: e.g. Voltmeter, Ammeter, Frequency meter, and whether it has a setpoint (threshold) <u>O</u>utput signal (AXO) or <u>N</u>o output signal (AXN) (b) The version of the firmware installed in the meter
	(c) The version of the APM Configurator software required for this meter.
Check online for available Updates button	 Connect to the internet. Click the Check for available Updates button. This checks online for any new software, and will display the information in the device Firmware Update and Configurator Software Update boxes.



APM Configurator Installation Guide Troubleshooting

Firmware	After you click the Check for available Updates button, this shows you:
Update Information	(a) if the latest firmware version is saved on the PC but waiting to be installed;
	(b) if there is a newer firmware version waiting to be downloaded from our web site.
	For example:
	Firmware Update Information
	Latest Firmware Version already downloaded and ready to Install
	Latest Firmware Version available to download from the Internet Download
	Software Update Information
	 If there is a download available, click the Download button. The software downloads, and a red message Update Available appears. Click the Install button:
	Firmware Update Information Update Available
	Latest Firmware Version already 022120-01-R04 Install
	Latest Firmware Version available to download from the Internet
	Collumn Under Information
	The firmware now updates. This may take up to 30 seconds or more:
	🔇 Update Firmware 💷 💷 🔀
	Status
	Load Firmware into memoryDone
	Enabling APM BootloaderDone
	Query Bootloader DynamicsDone
	Erasing Old FirmwareDone
	Programming new FirmwareDone Resetting APMDone
	DeviceSelector
	APM reprogrammed sucessfully
	ОК
	Click OK to finish.



Software Update	After you click the Check for available Updates button, the screen shows you:					
Information	(a) the version of the installed APM Configurator software;					
	 (b) if there is a copy of the latest APM Configurator software already downloaded onto the PC and waiting to be installed; 					
	(c) if there is a newer version waiting to be downloaded from our web site.					
	For example:					
	Software Update Information					
	Software Version Installed No Software installed					
	Latest Software version for current fimware No newer updates Available Download					
	Latest Software version after firmware updates Available Download					

Download Updates for Offline Use

APM Device Selector > menu > Updates > Download Updates for Offline Use

You can use the APM Configurator software where there is **no internet connection**, such as in a factory. To do this, you would download the required software onto a laptop, which you can then take to the factory. Then you would run the APM software offline to configure the APM meters there.

Note: You can pre-download the software updates whether there is a meter connected or not.

To download the files:

- Connect your computer to the internet.
- Open the APM Device Selector screen, and select menu > Updates > Download for Offline Use.
- Click to tick the checkboxes for those modules that you need to download.
 Note: AXO means these models have setpoint outputs (threshold trigger points).
 AXN means these models have no setpoint outputs.



Scenario: In this example, suppose you have a voltmeter, an ammeter and a frequency meter, each with setpoint outputs (AXO version). You would need to download APM Firmware and APM Configurator software to suit.

The **Download for Offline Use** screen shows that certain Configurator modules for the voltmeter and ammeter were downloaded previously and are already on your PC:

022173-01-R03	APM-VOLT-AXO	
022173-02-R03	APM-AMP-AXO	
022173-03-R03	APM-FREQ-AXO	Downloaded OK
022173-04-R03	APM-VOLT-AXN	Already Downloaded
022173-05-R03	APM-AMP-AXN	Already Downloaded
022173-06-R03	APM-FREQ-AXN	Already Downloaded
022121-02-R02-0	0 APM-AMP-ANO	Downloaded OK
022121-02-R02-0	0 APM-AMP-AXO	Downloaded OK
22121-03-R02-0	0 ADM-VOLT-AXN	Downloaded OK
2121-05-B02-0	0 APM-AMP-AXN	Already Downloaded
X22121-06-R02-0	0 APM-FREO-AXN	Already Downloaded
-•		

- Select what you need and then click **Download selected updates**. The software should download within a few seconds.
- As each module completes its download, the checkbox clears its tick and the screen shows **Downloaded OK** to confirm.
- When it has finished downloading the updates, click Close to continue. The files are
 installed in the main software installation path, which you can see at
 menu > Help > About > About APM Configurator. They will be ready for use when you
 operate offline to configure the APMs.



Troubleshooting

1. Error message when you try to download the APM Device Selector software



If you still see the error message:

Error message: "Error accessing Update Web Site – The remote server returned an error: (404) Not Found"

- If this happens, check your internet connection. For example, can you still navigate through web sites via the browser?
- In Device Selector, click OK and try again.
- Click **OK**, close the APM Device Selector, and then open it and try again.

If you still have problems:

- Check your Firewall, Anti-virus and User Security settings.
- Reboot the PC and try again.
- Ask your IT department for help.

2. No device connected?

When you start the APM Device Selector, the screen is blank – nothing appears to be connected.

- Check that you have connected an APM meter.
- Check the USB connector cable. Unplug and reconnect each end, in case there is a bad connection. The APM meter type should show within a few seconds.
- If there is still no display, close the APM Device Selector, open it again. Check the cable.
- Try a different connector cable or a different meter, to help you diagnose the problem.



No devices showing...



3. Bootmode APM not detected

While updating the firmware, there is an Error message "Bootmode APM not detected":



Error message – Bootmode APM not detected

- Remove power to the APM meter.
- Unplug the USB cable.
- Re-apply power, re-connect the APM meter and try again.



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Technical Support

Contacting the Help Desk

Please use this Help Guide first

If you have a problem with installing or running the APM Configurator, please look in this manual first, to see whether your question is answered here.

If you cannot resolve the issue, please contact your supplier.

If it still cannot be resolved, email Trumeter Customer Service at info@trumeter.com.

They may ask for the firmware and software version numbers - see below.

Find the Version numbers

Technical Support may ask you for the various APM firmware and software versions.

APM Device Selector version

• Open the **APM Device Selector**.

The Device Selector software version number shows at the bottom right of the screen:





APM Configurator version

• Open the **APM Configurator** and select menu > **About > About APM Configurator**:

() Information	
0	trumeter innovation by design
APM Configurator	Version R02-00
Installation Path	C:\ProgramData\Trumeter\APM\022121-01-R02- 00.exe
APM Name	APM-VOLT-AxO Volt Meter
APM Firmware	022120-01-R03
www.truAPM.com	Close

The Information screen shows you:

- the APM Configurator version
- the Installation Path on this PC
- The **APM Name**—the model name or type of APM meter, e.g. APM-VOLT-AXO Voltmeter
- The APM Firmware version.



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Appendix /Reference

CE Conformity

Trumeter APM panel meters conform to CE requirements In accordance with **EN ISO 17050-1:2010**. This applies to model numbers:

APM-VOLT-APO; APM-VOLT-ANO; APM-VOLT-APN; APM-VOLT-ANN; APM-APO; APM-AMP-ANO; APM-AMP-APN; APM-AMP-ANN; APM-FREQ-APO; APM-FREQ-ANO; APM-FREQ-APN; APM-FREQ-ANN.

CE

These conform to:

Reference	Title, Edition (date)
IEC 61010-1:	Safety requirements for electrical equipment for measurement, control, and laboratory use 3.0 (2010-06)
IEC 61326-1	EMC requirements for equipment designed for measurement, control and laboratory use 2.0 (2012-07)
IEC 61000-4-2	Electrostatic discharge (ESD) immunity test 2.0 (2008-12)
IEC 61000-4-3	Radiated, radio frequency, electromagnetic field immunity test 3.2 (2010-04)
IEC 61000-4-4	Electrical fast transient/burst immunity test 3.0 (2012-04)
IEC 61000-4-5	Surge immunity test 3.0 (2014-05)
IEC 61000-4-6	Immunity to conducted disturbances, induced by radio frequency fields 4.0 (2013-10)
IEC 61000-4-8	Power frequency magnetic field immunity tests 2.0 (2009-09)
IEC 61000-4-11	Immunity to voltage dips, interruptions and variations. 2.0 (2004-03)
CISPR-11	Conducted and Radiated Emissions 5.1 (2010-05)

Please see the **EC Declaration of Conformity** on page 20.



EC Declaration of Conformity

	In a set la set	dealar		
	innovation by		alaration of Conform	:+
			In accordance with EN ISO 17050-1:2010	<u>Ity</u>
Ve	Frumeter Technolog	ies Ltd		
of H	Frumeter House Hornby Street			
L E E	Lancs England BL9 5BW			
n accordan	ce with the follow in	Directives:		
20	006/95/EC	The	Low Voltage Directive (LVD)	
20	004/108/EC	The	Electromagnetic Compatibility Directive (EMC)	
20	011/65/EU	The	Restriction of Hazardous Substances Directive (RoHS 2)	
ereby decla	are under our sole re	spansibility th		
F	quipment	APM	Panel Meter	
M	lodel number(s)	APM		I T-ANN
		APM	-APM-APO' APM-AMP-ANO' APM-AMP-APN' APM-AM	IP-ANN:
				REO-ANN
		AFW	- Regard, armer regardo, armer regarno, armer	
re in confo	rmity with the appl	icable requirem	ents of the following documents:	Edition (Data)
<u>R</u>		<u>Title</u>	mente feu electrical environment feu mener de control environ	Edition (Date)
IE	20 61010-1	laboratory us	e e	3.0 (2010-06)
IE	EC 61326-1	EMC requirer laboratory us	nents for equipment designed for measurement, control and e	2.0 (2012-07)
IE	EC 61000-4-2	Electrostatic	discharge (ESD) immunity test	2.0 (2008-12)
IE	EC 61000-4-3	Radiated, rac	lio-frequency, electromagnetic field immunity test	3.2 (2010-04)
IE	EC 61000-4-4	Electrical fast	transient/burst immunity test	3.0 (2012-04)
IE	EC 61000-4-5	Surge immur	ity test	3.0 (2014-05)
IE	EC 61000-4-6	Immunity to c	conducted disturbances, induced by radio-frequency fields	4.0 (2013-10)
IE	EC 61000-4-8	Power freque	ncy magnetic field immunity tests	2.0 (2009-09)
IE	EC 61000-4-11	Immunity to v	oltage dips, interruptions and variations.	2.0 (2004-03)
С	ISPR-11	Conducted a	nd Radiated Emissions	5.1 (2010-05)
hereby dec	clare that the equipn	nent named abo	ove has been designed to comply with the relevant sections of	the above
eferenced s	specifications. The u	nit complies wi	th all applicable Essential Requirements of the Directives.	
	-	Ack		
igned by: .	Name:	Jeff Al	en 🦰	
	Position:	Techni	cal Director	4
	Done at	Bury		14
	On	25 th Ju	ne 2014	DOOLOOD
			Document	(issue 1)
rumeter T	echnologies Ltd	tel	+44 (0)161 705 4317	
	ouse	fax	+44 (0)161 705 4319	
frumeter H				
frumeter H Europa Bus	iness Park	11-20-20-20-20-20-20-20-20-20-20-20-20-20-		
Crumeter H Europa Bus Barcroft Str Bury BI 0 55	iness Park reet 3T	email	info@trumeter.com	

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