

# trumeter



## **APM Configurator Installation Guide**

	Trumeter Voltmeter	APM Configurator		-	
File APM About		Output 1 Output 2 Backligh	al Browney		
Input Signal Display Range	Display Scalar	Analogue Output	t Kesponse		
Auto ranging     Fixed	None     User	<ul> <li>Digital Output</li> </ul>		Output 1	
Min 0 Max 600	Scale 1 Offset 0	4 to 20mA 4 m/	A Current occurs at	200	Volts
Display Peak Bar	Display Zero	0 to 20mA 20m	A Current occurs at	400	Volts
	Display Zero if below this	Switch Output	) On	When the display	ed value is
	threshold value 0 Volts		Off	Above	360
		Change Backlight	Off	Below     Between	360
		Flash	Red	O Outside	
		Steady	Green		
			White	Hysterisis (of full	scale)
Displayed Message		Show Message		0%	50%
Displayed message		O P	1	1%	50%
Default Display Message	V O L T	1-1-1	-		
/ Statusisconnecte		NOTE For Backlight and	Messages, Output	2 has priority over	Output I
n Statueisconniecte					

Go to www.truAPM.com for further information



Revised / Reprinted April 2015 Manual Issue no. 1.05

Copyright © 2013-2015 Trumeter Technologies Ltd. All rights reserved.

Trumeter Technologies Ltd owns the copyright to this Manual. You may not reproduce or distribute any part of this publication in any form or by any means, electronic or mechanical, including photocopying, recording or any other information storage or retrieval system, without prior permission in writing from Trumeter Technologies Ltd.

General Sales and Service contact information:

UK / Europe office Trumeter Technologies Ltd Trumeter House Europa Business Park Barcroft Street, Bury, BL9 5BT United Kingdom Email: <u>sales.uk@trumeter.com</u>	North America Office Trumeter Company Inc. (USA) 702 S. Military Trail Deerfield Beach, Florida FL 33442, USA Tel: +1 954 725 6699 Email: sales.usa@trumeter.com	Asia Pacific Distributor Innovative Design Technologies Sdn. Bhd Lot 5881, Lorong Iks Bukit Minyak 1 Taman Perindustrian Iks, 14000 Bukit Tengah Penang, Malaysia Web: www.idtworld.com Tel: + 604 5015700
		Tel: + 604 5015700 Email: info@idtworld.com

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

## Go to www.truAPM.com for further information



## Contents

Introduction	1
Minimum system requirements	1
How to install the software	2
Stage 1: Register and download the APM Device Selector software       2         Initial setup – test and connect       6         Stage 2: Download the APM Configurator Software       7         Download Updates for Offline Use       13	
Troubleshooting	.15
Technical Support	.17
Contacting the Help Desk	
Appendix /Reference	.19
CE Conformity	
Index	.21
For your own Notes	.22

#### **Record of document updates**

Issue	Document update record	Updated by	Date	Approved by
1.02	Draft first issue	Philip Tory, Authorgraphic	22 July 14	_
1.05	Approved for release	Philip Tory, Authorgraphic	30 Apr 2015	Nick Hughes



## 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
<b>Register to Download Software</b>	
Name *	
Matthew	Smith
First	Last V
Phone *	
05958595857	
Email *	
matthew.smith@companyname.com	
Region *	, ,
Africa Asia Pacific Austrialasia Europe - 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	×
	5				

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

1			Save
1			Save <u>a</u> s
1	Do you want to run or save APM Configurator.msi (462 KB) from truapm.com? Run Save	) (	Save and run
1		7	,

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 –

	APM Configurator.msi is not commonly downloaded and could harm your computer. $$ $$ $$	Í
8	Delete Actions View downloads	l
	<u>\</u>	

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



The SmartScreen Filter (or similar) may appear:

SmartScr	een 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
<u>What's</u>	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
The installer will install APM Configurator to the following folder. Fo install in this folder, click "Next". To install to a different fold Eolder: C:\Program Files (x86)\Trumeter\APM\	er, enter it below or click "Brow

- 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.

6



#### 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	E X
E <u>x</u> it <u>U</u> pdates <u>A</u> bout	
Connected APMs	$\frown$
APM-AMP-AxO Ammeter APM-VOLT-AxO Volt Memer	
	M
Configure APM	
	1.0.1.5
Firmware 022120-02-R02 Software 022	2121-02-R02 .::

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:

<u>A</u> PM Abo <u>u</u> t				7
out 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	ual to displayed	value of 0 VOLT
Display Peak Bar	Display Zero	20 mA current is equ	ual to displayed	value of 600 VOLT
	Display Zero if below this	Switch Output 1	(i) On	When the displayed value is
	threshold value 0 VOLT		Off	<ul> <li>Above</li> </ul>
	Limit Decimal Places	Change Backlight	O Off	Below 450
		(@) Flash	Red	Between
	<ul> <li>3 (0.000)</li> <li>2 (0.00)</li> </ul>	Steady	🔿 Green	Outside
	© 1 (0.0)		🔿 White	Hysterisis
	O (0)	Show Message		
		AL 1		0% 1% 20%
splayed Message	VOLT	1.0000000000000000000000000000000000000	id Messages O	itout 2 has priority over Outout
spiayeu message	VOLT	1.0000000000000000000000000000000000000	id Messages, O	utput 2 has priority over Out
tatus: Connected				

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**:

🚫 API	M Device Sel	ector	E X	
E <u>x</u> it	<u>U</u> pdates	<u>A</u> bout		
Co	nnected APM	's		
A	PM-AMP-AxC	) Ammeter		
		Configure APN	м	
			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:

nput Signal		Alarm 1 Alarm 2 Backlight Res	ponse
Display Range	Display Scalar	Analogue Output	Alarm 1
<ul> <li>Auto ranging</li> <li>Fixed</li> </ul>	⊚ x1 ⊘ User	Alam Mode	
Min 0 Max 5 Display Peak Bar	Scale 1 Offset 0	4 mA current is equal to displ 20 mA current is equal to displ	
Peak Hold	Display Zero		
External Sensor	Display Zero if below this	Switch Output 1	When the displayed value is
None      CT      Shunt     Primary Secondary	threshold value 0 AMPS	O Off	Above
5 5	Limit Decimal Places	Change Backlight Off	Between
Current mV	<ul> <li>3 (0.000)</li> <li>2 (0.00)</li> </ul>	<ul> <li>Flash</li> <li>Rei</li> <li>Steady</li> <li>Green</li> </ul>	Outside
	© 1 (0.0)	O Wh	ite Hysterisis
	© 0 (0)	Show Message	0% 1% 20%
isplayed 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	r updates	Download
Latest Configurator Software version after APM firmware has been updated	Check Online fo	r updates	Download
			ſ

Example



APM Derived Information	<ul> <li>This shows you information about the selected APM meter:</li> <li>(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)</li> <li>(b) The version of the firmware installed in the meter</li> </ul>
	(c) The version of the APM Configurator software required for this meter.
Check online for available Updates button	<ul> <li>Connect to the internet.</li> <li>Click the Check for available Updates button.</li> <li>This checks online for any new software, and will display the information in the device Firmware Update and Configurator Software Update boxes.</li> </ul>



## 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 Update Available Install						
	Latest Firmware Version available to download from the Internet Download						
	Software Update Information						
	<ul> <li>If there is a download available, click the <b>Download</b> button. The software downloads, and a red message <b>Update Available</b> appears.</li> <li>Click the <b>Install</b> button:</li> </ul>						
	Firmware Update Information         Update Available						
	Latest Firmware Version already downloaded and ready to Install						
	Latest Firmware Version available to No newer updates Available Download						
	The firmware now updates. This may take up to 30 seconds or more:						
	🚫 Update Firmware 💷 💷 🔀						
	Status						
	Load Firmware into memoryDone Decode FirmwareDone						
	Enabling APM BootloaderDone Initalize Bootloader CommsDone						
	Query Bootloader DynamicsDone Creating Memory ImageDone						
	Erasing Old FirmwareDone Programming new FirmwareDone						
	Resetting APMDone						
	DeviceSelector						
	Deviceselector						
	APM reprogrammed sucessfully						
	ОК						
	Click <b>OK</b> to finish.						



Software Update	After you click the <b>Check for available Updates</b> button, the screen shows you:				
Information	(a) the version of the installed APM Configurator software;				
	<ul> <li>(b) if there is a copy of the latest APM Configurator software already downloaded onto the PC and waiting to be installed;</li> </ul>				
	(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
	0 APM-FREQ-AXO	Downloaded OK
022121-02-R02-0	0 APM-AMP-AXO	Downloaded OK
	0 APM-FREQ-ANO	Downloaded OK
2121-05-R02-0	State of the second second second	Already Downloaded
1.7	0 APM-FREQ-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.



.....

## **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.



.....

## 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**

6	) trum	otor		
E	innovation b			
			alaration of Confor	mity
	<u>1</u>		claration of Confor In accordance with EN ISO 17050-1:2010	<u>mity</u>
We	Trumeter Technolo	aies I ta		
of	Trumeter House Hornby Street	gies Liu		
	Bury Lancs			
	England			
	BL9 5BW			
in accor	rdance with the follow	ing Directives:		
	2006/95/EC	The	Low Voltage Directive (LVD)	
	2004/108/EC	The	Electromagnetic Compatibility Directive (EMC)	
	2011/65/EU	The	Restriction of Hazardous Substances Directive (RoHS 2)	
hereby a	declare under our sole r	esponsibility th	at:	
	Equipment	APN	1 Panel Meter	
	Model number(s)	APM	I-VOLT-APO; APM-VOLT-ANO; APM-VOLT-APN; APM	I-VOLT-ANN;
		APN	I-APM-APO; APM-AMP-ANO; APM-AMP-APN; APM	I-AMP-ANN;
		APN	I-FREQ-APO; APM-FREQ-ANO; APM-FREQ-APN; APM	1-FREQ-ANN;
are in co	onformity with the app	olicable requiren	ents of the following documents:	
	Reference	Title		Edition (Date)
	IEC 61010-1	Safety requir laboratory us	ements for electrical equipment for measurement, control, e	and 3.0 (2010-06)
	IEC 61326-1	EMC require laboratory us	ments for equipment designed for measurement, control a le	nd 2.0 (2012-07)
	IEC 61000-4-2	Electrostatic	discharge (ESD) immunity test	2.0 (2008-12)
	IEC 61000-4-3	Radiated, rad	dio-frequency, electromagnetic field immunity test	3.2 (2010-04)
	IEC 61000-4-4	Electrical fas	t transient/burst immunity test	3.0 (2012-04)
	IEC 61000-4-5	Surge immur	nity 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 freque	ency 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 a	nd Radiated Emissions	5.1 (2010-05)
			ove has been designed to comply with the relevant section	
referenc	ced specifications. The	unit complies w	ith all applicable Essential Requirements of the Directives.	
Signad	hw	Acto	A	
orgineu	by: Name:	Jeff Al	len	
	Position	: Techn	ical Director	<b>E</b>
	Done at	Bury		14
	On	25 <sup>th</sup> Jւ	Ine 2014 Docum	nent number: DOC5600 (issue 1)
Trumet	ter Technologies Ltd	tel	+44 (0)161 705 4317	
Trumet	er House	fax	+44 (0)161 705 4319	
	Business Park	omeil	in the Others and the second	
	t Street L9 5BT	email web	info@rumeter.com www.trumeter.com	
Dury Dr				

20



## Index

.NET Framework 1
.NET Framework updates
404 Not Found
About APM Configurator
Actions button
APM Configurator screen
APM Configurator Setup Wizard
APM Configurator software 1, 7
APM Configurator version 18
APM Configurator.msi is not commonly
downloaded3
APM Derived Information 11
APM Device Selector screen
APM Device Selector version 17
APM firmware version 18
APM Information screen 10
APM meters 1
APM name
Appendix
Available Updates
AXN no output signal 11, 13
AXO output signal
Bootmode APM not detected 16
cannot see device15
CE Conformity 19
Check for available updates 12, 13
check for updates 10
Configurator Setup Wizard screen
Configurator version 18
Configure APM9
Confirm installation screen5
Contact Help Desk 17
Contents 1
Customer Service
Declaration of Conformity
Device Selector version
Document update record
Download APM Configurator Software 7
5
Download for Offline Use
Download Link from our email
Download selected updates 14
Download Software button 3
Downloading software8
EC Declaration of Conformity 20
Email Download Link
EN ISO 17050 19
Error accessing Update Web Site 15
Error message
Error messages 15
Features

Firmware Update	11
Firmware Update Information	12
How to install the software	. 2
Information (About) screen	18
Initial setup	. 6
Install for next meter type	. 9
Installation Complete screen	. 5
Installation Folder screen	. 5
Installation path 14,	18
Installing APM Configurator screen	. 5
internet connection	13
Introduction	. 1
Key Features	. 1
Loaded	
Minimum system requirements	. 1
No device connected?	15
no internet connection	13
Offline Use	
publisher could not be verified	. 4
Record of document updates	. 1
Reference	19
Register and download	
Register to Download Software screen	. 2
Run anyway	
Security Warning message	. 4
Select Installation Folder screen	
setpoint outputs 11,	13
Setup Wizard screen	. 5
SmartScreen Filter	. 4
software installation path	14
Software Update Information	13
Software Updates 10,	11
Stage 1 installation	. 2
Stage 2 installation	
system requirements	. 1
Technical Support	
Test and Connect	. 6
Troubleshooting	15
Trumeter Customer Service	17
Update Available	12
Updates for Offline Use	13
Updates, check	13
USB 2.0 port	. 1
USB cable1	, 6
Version - APM Configurator	18
Version numbers	17
warning message	
Windows operating system	
Windows Update	



## For your own Notes

—— End ———