Summary

Connection	2
Setup Mode	3
Run Mode	5
WIFI Connection	6
USB Connection	7
Driver	7
COM Port	8
Terminal	9

Connection

Connect the ECU tachometer output to "**TACH**" input on the PCB. Close **left** solder pad for signal less then **+5v**.

Close **right** solder pad for signal less then +**50v** and adjust the sensitivity.



or connect a wire wrapped around the HT lead to "Clamp" input on the PCB and adjust the sensitivity



Setup Mode

- 1) Power on (+12v) the Tachometer.
- 2) Within 2 seconds, press the SETUP button.



3) Press Setup button to select between 2 or 4 strokes.



Wait 5 second for the displayed value to be validated.

4) Press Setup button to select **1 to 8 cylinders**.



Wait 5 second for the displayed value to be validated.

5) Press Setup button to select **Clamp input** (*a wire around the sparkplug cable*).

0 (default) = Disabled and Tachometer input is Enabled

1 = Clamp input Enabled and Tachometer input is disabled



Wait 5 second for the displayed value to be validated.

6) Press Setup button to change the **Display Refresh**.

5 (default) = 500millisecond = 0.5 second



7) Press Setup button to start WiFi Display.
0 (default) = Disabled and USB Display Enabled
1 = WiFi Enabled and USB Display Disabled



8) Press Setup button to Flip the Screen.0 (default) = Disabled



9) A Summary is displayed.



10) Finally Press the RESET button



Run Mode

1) **Power on** (+12v) the Tachometer.

2) Wait 2 seconds



3) A Summary is displayed.



3) The Tachometer is ready.



WIFI Connection

1) If WiFi is Enabled the Tachometer box starts a WiFi AP (Access Point)

2) On your phone, laptop, PC, whatever, go to the **Wifi setting** and search for a new SSID called **Transmic_tach**

3) Once your device is connected to the AP, open up a **browser** and head over to <u>http://transmic.tach</u> or <u>http://192.168.4.1</u>

Once connected your browser should display:



If WiFi is Disabled RPM value are available on USB port @ 115200/N/8/1

USB Connection

Driver

The ignition uses a CH340 chip which is a Serial to USB converter. This IC needs a driver. Download **CH340G** driver.

Windows:	http://www.arduined.eu/tag/windows-7/			
Mac:	https://github.com/wemos/ch340_driver			
or on the Chip Manufacturer site	http://www.wch-ic.com/download/CH341SER_EXE.html			

Install CH340G driver as "Administrator"

DriverSetup(X64)	– 🗆 X	🛃 DriverSetup(X64)	- 🗆 🗙
Device Driver Select INF	Install / UnInstall	Device Driver Install / UnI Select INF CH351SER INF	nstall
INSTALL	WCH.CN USB-SERIAL_CH340	DriverSetup	×
UNINSTALL	08/08/2014, 3.4.2014	UNINSTA Driver install s	uccess! 3.4.2014
HELP		HELP	ок

Restart the computer.

Head over to the "*Device Manager*" (Start Menu > Run > **devmgmt.msc**) go down to "*Ports*" open that up.

Plug in the Tachometer via an USB connector, you should ear a bell sound and the ignition device pop up into "*Ports*" section. Now you ready to go!

Moniteurs	Propriétés de : USB-SERIAL CH340 (COM18)
⊳ 📲 Ordinateur	
Périphériques d'interface utilisateur	Général Paramètres du port Pilote Détails
Périphériques système Ports (COM et LPT) Port de communication (COM1)	USB-SERIAL CH340 (COM18)
Port imprimante ECP (LPT1)	Foumisseur du pilote : wch.cn
USB-SERIAL CH340 (COM18)	Date du pilote : 08/08/2014
Souris et autres périphériques de pointa	Version du pilote : 3.4.2014.8
	Signataire numérique : Microsoft Windows Hardware Compatibility Publisher
	Détails du pilote
	Mettre à jour le pilote USB-SERIAL CH340 (COM18)
	Version précédente Fichiers du pilote :
	C:\Windows\System32\Drivers\CH341S64.SYS
	Désactiver C:\Windows\system32\DRIVERS\serenum.sys

COM Port

Open "Device Manager". Under "Ports (COM&LPT)" you should notice a new COM-port.

Note the number.

🚑 Gestionnaire de périphériques
Fichier Action Affichage ?
🔺 🚔 Thierry-HP
Appareils mobiles
D States graphiques
Cartes réseau
Demo Claviers
Contrôleurs audio, vidéo et jeu
Contrôleurs de bus USB
Contrôleurs IDE ATA/ATAPI
Eccteurs de disque
Lecteurs de DVD/CD-ROM
D- Moniteurs
Dérinhériques d'interface utilisateur
Perphenques d'interface d'insateur
Ports (COM et LPT)
Port de communication (COM1)
Port imprimante ECP (LPT1)
USB-SERIAL CH340 (COM16)
Processeurs
Souris et autres périphériques de pointage

Terminal

Launch a terminal on your PC (I recommend **CoolTerm** <u>http://freeware.the-meiers.org</u>) But <u>Putty</u> or <u>Kitty</u>, <u>Teraterm</u> are usable too...

Go to Options > Serial Port, Setup the terminal to 115200.N.8.1



Select the **COM-port** you have noted above.

Untitled_0								
File Edit Co	nnectio	n View W	/indow He	p				
New Open	E Save	Connect	Disconnect	Clear Data	Options	HEX View Hex	? Help	
	Conr	nection Optic	ons (Untitled	_0)				
		Serial Port Terminal Receive		Serial Port Op Port:	COM1		•	•
		Miscellaneou	IS	Baudrate:	COMI	j		
				Data Bits:	8		•	
				Parity:	none		•	
				Stop Bits:	1		•	
				Flow Control:				
					XON			
				Software S	upported F	low Control		
				📝 Block Keys	trokes while	e flow is halte	ed	
				Initial Line Sta	ates when P	ort opens:		
				OTR On	O DTI	R Off		
				RTS On	© RTS	5 Off		
ß								
Smart Switch	c				Re-Scan	Serial Ports		
						Cancel	0	ĸ

Under **Options > Terminal** check *Line Mode, Enter Key Emulation, local Echo* and *Format TAB >* **OK**.



Save this configuration