

ATS WiFiScope



....the worlds first professional WiFi scope

ATS WiFiScope

UNLEASHED

Introducing the new ATS Wifi Scope with unadulterated speed and integrated network connections and the power of mobility. Giving you options you never thought of or considered a pipe dream.



...the worlds first professional WiFi scope

“

ATS Scopes continues to be the world leader in Scope technology.

UNIFIED SOFTWARE & HARDWARE

Using the powerful Multi-Channel software and ATS WiFiScope you can turn an ordinary laptop into a high-resolution oscilloscope, arbitrary waveform generator (when extended with ATS500XM), high-performance multimeter, comprehensive protocol analyser, precision spectrum analyzer and a very fast differential data logger.

TiePie

CH1 [M] [AR] 80V [OFF]

CH2 [M] [AR] 80V [OFF]

0.000

1.500

3.000

4.500

6.000

7.500

9.000

10.500

12.000

13.500

15.000

16.500

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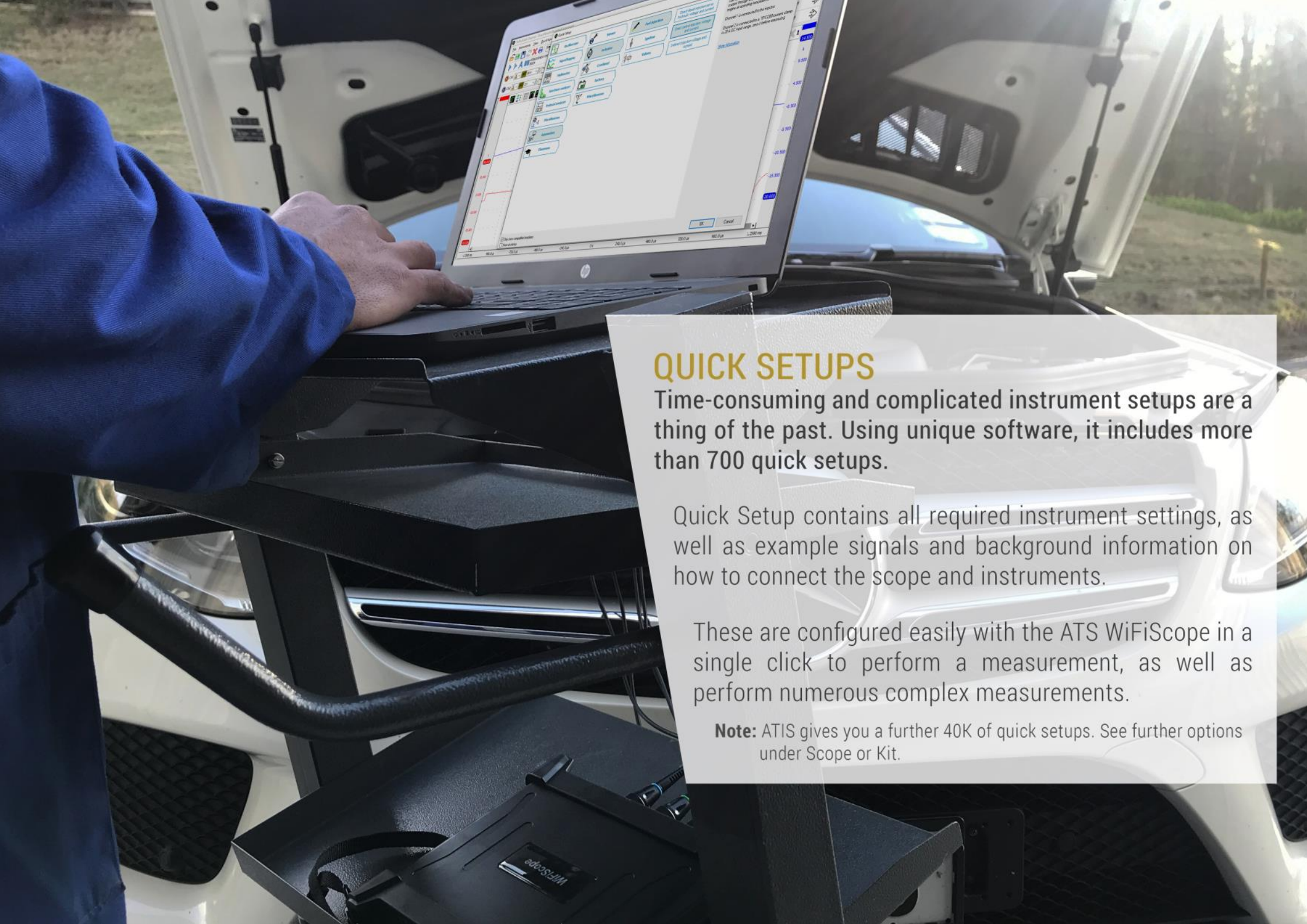
94.500

96.000

97.500

99.000

100.000



QUICK SETUPS

Time-consuming and complicated instrument setups are a thing of the past. Using unique software, it includes more than 700 quick setups.

Quick Setup contains all required instrument settings, as well as example signals and background information on how to connect the scope and instruments.

These are configured easily with the ATIS WiFiScope in a single click to perform a measurement, as well as perform numerous complex measurements.

Note: ATIS gives you a further 40K of quick setups. See further options under Scope or Kit.

Quick setups are easily configured with the ATS WiFiScope in a single click to perform a measurement, as well as perform numerous complex measurements.

The screenshot displays the TiePie Multi Channel software interface. On the left, a 'Quick Setup' panel offers various measurement templates such as Oscilloscope, Signal logging, Multimeter, Spectrum analyzer, Protocol analyzer, Miscellaneous, Automotive, and Classroom. A 'Sensor' panel includes options for Fuel injection, Ignition, and Valves. A 'Direct petrol injection voltage and current' dialog box provides detailed instructions for channel configuration. The main workspace shows a live waveform with a vertical scale from -80.000 to 80.000 V and a horizontal scale from -1.2000 ms to -480.0 μs. A 'Compression test1' dialog box is open, showing a waveform and measurement results for Amplitude, Piston move time, and Result.

Using an ATS Scope could not get any easier! Easy navigation and just three clicks to your favourite measurement. Where else do you get a comprehensive scope and an easy setup, even a beginner will get quick results.

Profit from the power of a large team of international engineers who are behind the range of ATS scopes. Since 1999 AECS is the Australasian leader in ATS Scope Equipment, training and support.

CONNECTED

ATS WifiScope hardware is upgraded to new wireless communications between laptop and scope, giving you more flexibility, galvanic isolated measurements and mobility.

New technology allows to share and conduct internal remote support, so you can assist your technicians anywhere in the world. This also includes being able to receive assistance from AECS Technical Support.



CONTINUOUS REAL-TIME
HIGH-SPEED DATA OVER WIFI



UNTETHERED

ATS WifiScope is designed and built for everyday use, with its rugged design and all power software, combined, it makes ATS WifiScope the first tool to reach-for in any diagnostic situation.

- Built-in battery with uninterruptable power supply (UPS) functionality.
- Rugged industrial design gives ATS Wifi Scope the ability for mobile measurements such as transport, moving installations and industrial applications.
- Review and advise on measurements anywhere in the world.
- Continuous live streaming measurements over WiFi, network, internet and USB.
- Galvanic isolated measurements, no physical connection to the PC required.
- Be connected and measure using Wifi.
- Channel selectable offset/differential measurements.
- Unique Safe Ground technology protects your scope, computer and your circuit under test, against accidental short circuits (incorrect ground connections) and incorrect hookups.
- Blazing speeds with USB measurements for stand-alone applications in real-time and high-speed transient recording up to 200 mega samples per second (MSa/s)
- Easy-Connect with a simplified Wifi setup (Auto-discovery), and Easy-Connect to an existing Wifi network with ease.

SURE CONNECT

Included with ATS WifiScope is the revolutionary SureConnect technology. While measuring, SureConnect checks in real-time if a probe is in physical and electrical contact with the test subject. This minimises distorted signals and makes for a quick and perfect connection every time.



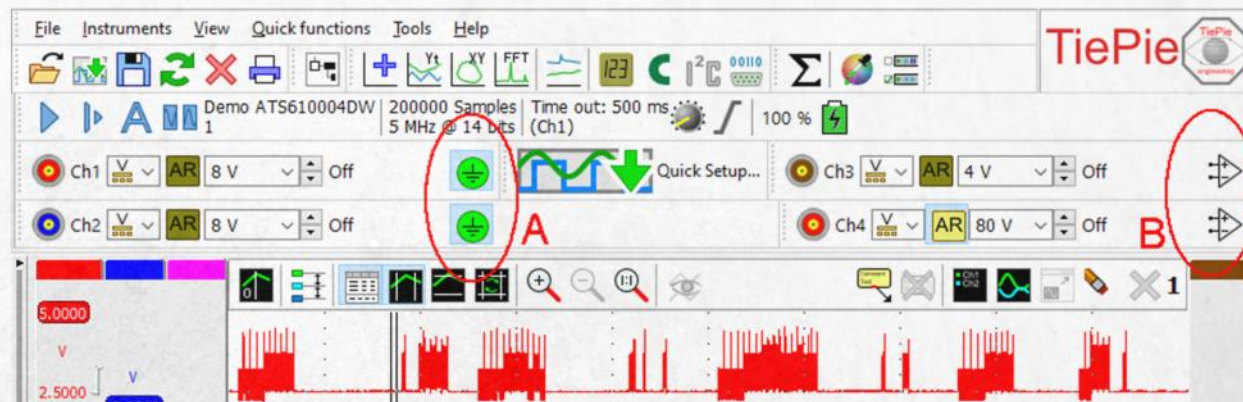
SAFE GROUND

1 Unique to ATS Scopes is Safe Ground technology which protects your scope, computer and your circuit under test, against accidental short circuits (incorrect ground connections) and incorrect hookup.

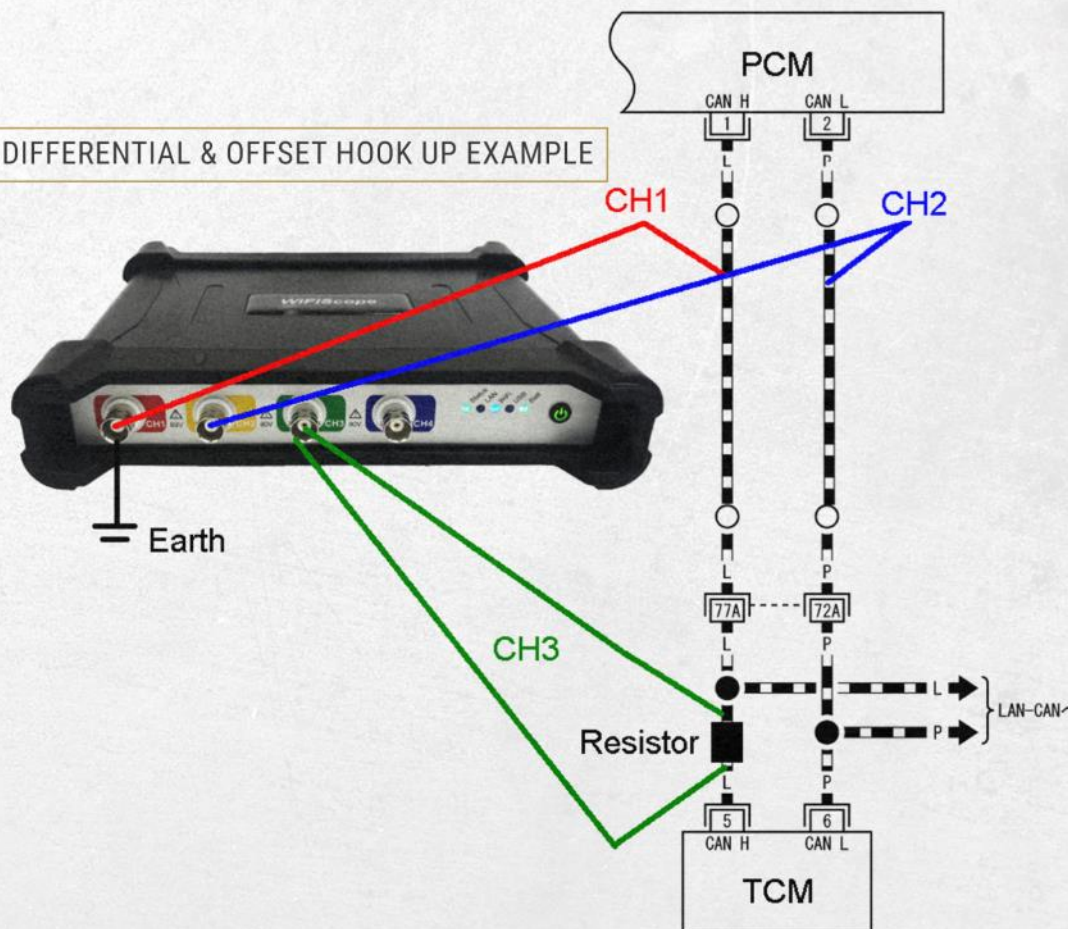
2 Safe Ground technology uses the oscilloscope inputs both as offset and as a differential. When SafeGround is active and you accidentally create a wrong connection that causes a short circuit, SafeGround will disconnect the ground of the input channel without damaging the oscilloscope, laptop or circuit under test.

DIFFERENTIAL / OFFSET

You can switch from a offset input (A) to an differential input (B) at will and without damage as a result of accidental short circuit current. The advantage of an oscilloscope with differential inputs is that there are no connections between the channels.



COMBINATION DIFFERENTIAL & OFFSET HOOK UP EXAMPLE

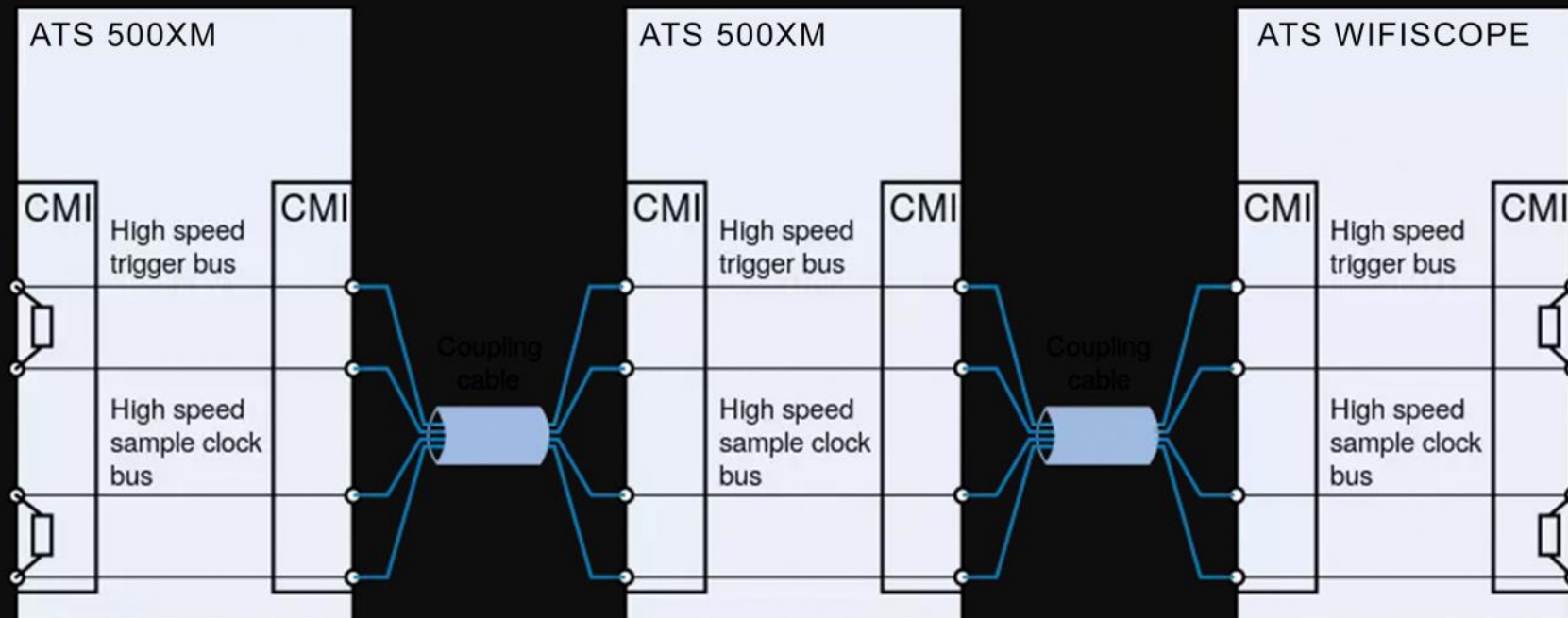


SIDE BY SIDE

Owners of an ATS Scope either ATS 500XM or ATS 6004XM can further push the boundaries of possibility. ATS 500XM and ATS 6004XM can be connected to the new ATS WifiScope, resulting in increased channel range.

This can be done by using a Mini-HDMI coupling cable. The maximum number of scopes are only limited by the number of available USB ports. There is no special software or hardware modifications required.

Note: Wifi function is not available when multiple scopes are connected.



SCOPE & KIT

You have the choice of adding an ATS WifiScope to your existing diagnostic tools or go for the complete package (ATS WifiScope + Kit). The options are endless. We suggest you talk to our team and get expert advice on the best options for you and your workshop. Here is a shortlist of the options available.

ATS Kit Options:

- ATIS Pro database & Multi-Channel (diagnostic software)
- Purpose built aluminium scope tool case
- Combustion chamber pressure sensor
- 100's of live mathematical functions
- Diesel pump pressure tester
- ATS oscilloscope leads
- Personalised laptop - 15.6" screen. W10
- Comprehensive scope Level 1 training
- 1yr Technical support (via forum and phone)
- Break out leads (68 leads)
- 80 Amp current clamp
- 600 Amp current clamp
- G Force sensor
- Trigger button
- Alligator clips
- Piercing probes
- Hirschman probes
- 100x coil BNC
- 100x coil 4mm
- Solenoid driver
- Pressure sensor
- Milliohm meter



AECS TRAINING

AECS Training is gold. It's pure fusion from the practical and interactive through to assisting you in real-workshop diagnostics, even the theory is exciting.

With AECS Training you are not alone, AECS provides an extensive support network with on-location training (face to face training in your area), online training and AECS Technical Support. Unlike most players in the industry, we teach, assist and want you to get the most out of your diagnostics tools.

CHOICE

You have plenty of choices for training. You can choose between our online training or location-based training throughout New Zealand. If you're new to ATS Scopes we suggest Comprehensive Scope Training - Level 1 to get you started. Then continue with Comprehensive Scope Training - Level 2.

WE'RE WITH YOU 24/7

For the average of 4 coffee's a month (\$18/mth) you can get the latest from AECS online training videos. Our online scope training covers the basics through to more complex diagnostics. We are continually building our library of videos.

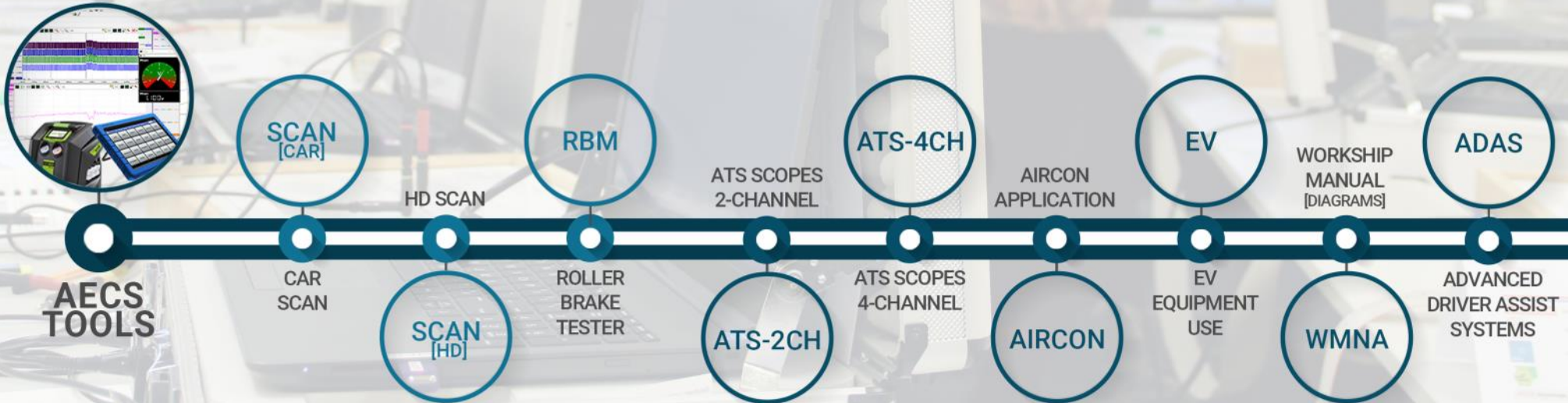
Included within your subscription are online training videos on, Aircon, Scan Tools, Brake Test (RBM), and Workshop Manuals. Sign up for AECS Tools through our AECS Online Academy below or get on contact.

Location-based training & dates: dates.aecs.net

Online Training: online.aecs.net

You can get in contact on:

(NZ) 06 874 9077 / (Global) +64 6 874 9077.



ATS WiFiScope

TECH SPECS

Input Channels	4		
Input Type	Female BNC		
Resolution	8 12 14 16 bit - Selectable		
DC Accuracy	0.25 % (0.1 % typical) of full scale \pm 1 LSB at 20°C to 25°C		
Ranges (Full Scale)	\pm 200 mV	\pm 2 V	\pm 20 V
	\pm 400 mV	\pm 4 V	\pm 40 V
	\pm 800 mV	\pm 8 V	\pm 80 V
Coupling	AC/DC		
Impedance	1 M Ω / 20 pF \pm 1 %		
Maximum voltage	200 V (DC + AC peak < 10 kHz)		
Bandwith	Up to 250MHz		
Network Interface	USB 3.1/3.0 (5Gbit/s) USB 2.0		
	Network 1 Gbps		
	Wifi 802.11		
Power Options	USB External input In-built battery*		
External Power	Power adapter included		
Internal Battery	Li-ion		
Battery Capacity	8000 mAh 3.7V		
	Approximately 3hrs measurement time		
	*Battery - 6 months warranty		
I/O Connectors			
LAN	RJ45 Network Socket		
Extension Connector	D-sub 9 pins female		
CMI connectors	2 x HDMI type C socket		
Operating Systems	Windows 10 32/64 bits		
Digital External Trigger	Yes		

	Oscilloscope mode Maximum Sampling Rate	Data Logging mode Maximum Streaming Rate
		8 bit - Measuring
1 Channel	1 GSa/s	200 MSa/s
2 Channels	500 MSa/s	100 MSa/s
3/4 Channels	200 MSa/s	50 MSa/s
		12 bit - Measuring
1 Channel	1 Channel - 500 MSa/s	100 MSa/s
2 Channels	2 Channel - 200 MSa/s	50 MSa/s
3/4 Channels	3/4 Channel - 100 MSa/s	25 MSa/s
		14 bit- Measuring
1 Channel	100 MSa/s	100 MSa/s
2 Channels		50 MSa/s
3/4 Channels		25 MSa/s
		16 bit - Measuring
	6.25 MSa/s	6.25 MSa/s
Memory		
	8 bit - Resolution USB	8 bit - Resolution WiFi/LAN
Measuring:		
1 Channel	265 MSa per channel	64 KSa per channel
2 Channels	128 KSa per channel	32 KSa per channel
3/4 Channels	64 KSa per channel	16 KSa per channel
	12/14/16 bit - Resolution USB	12/14/16 bit - Resolution WiFi/LAN
Measuring:		
1 Channel	128 Msa per channel	32 KSa per channel
2 Channels	64 Msa per channel	16 KSa per channel
3/4 Channels	32 Msa per channel	8 KSa per channel

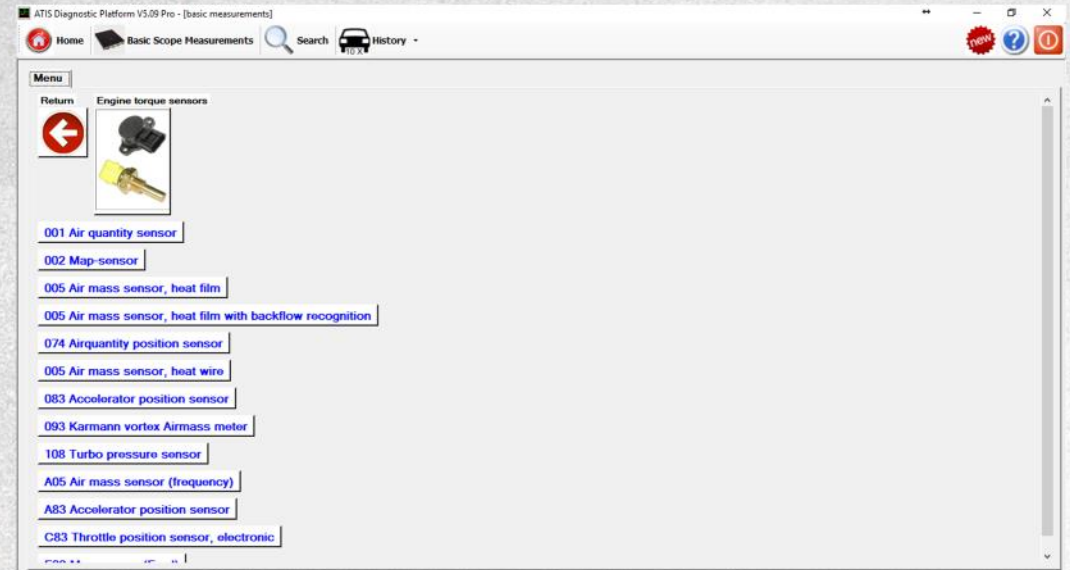
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The following information covers what you can do with an ATS scope.

GUIDANCE

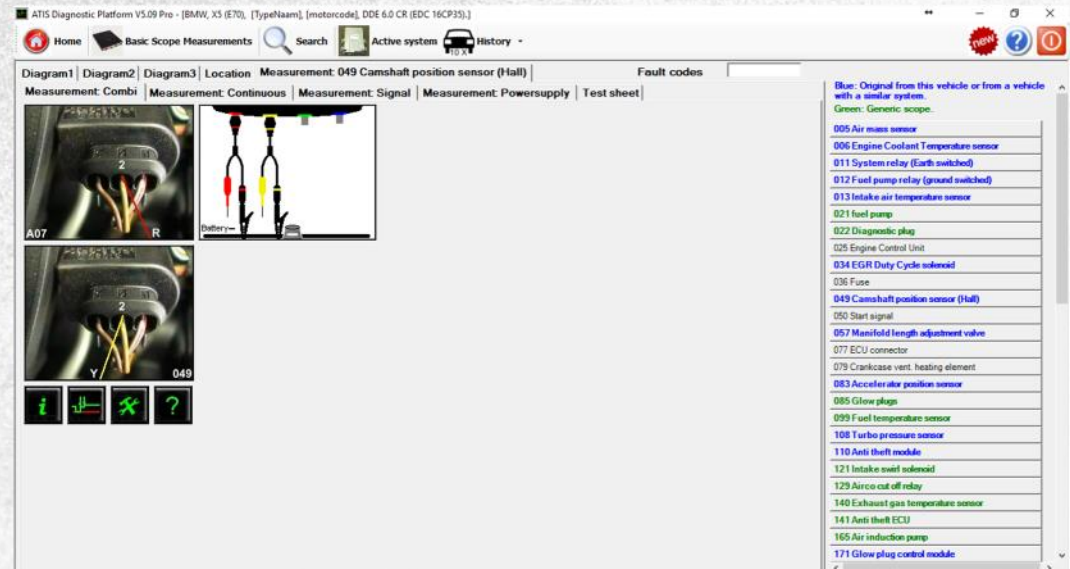
ATIS software is able to guide you to the correct scope setting for the component that you want to measure with pre-recorded vehicle specific sample patterns* for power supply voltage, sensor patterns and actuator current. Quickly analyse vehicle's sensors and actuators with pre-recorded signals that set up the scope to measure with one click.

*ATIS Pro only.



CONNECTION

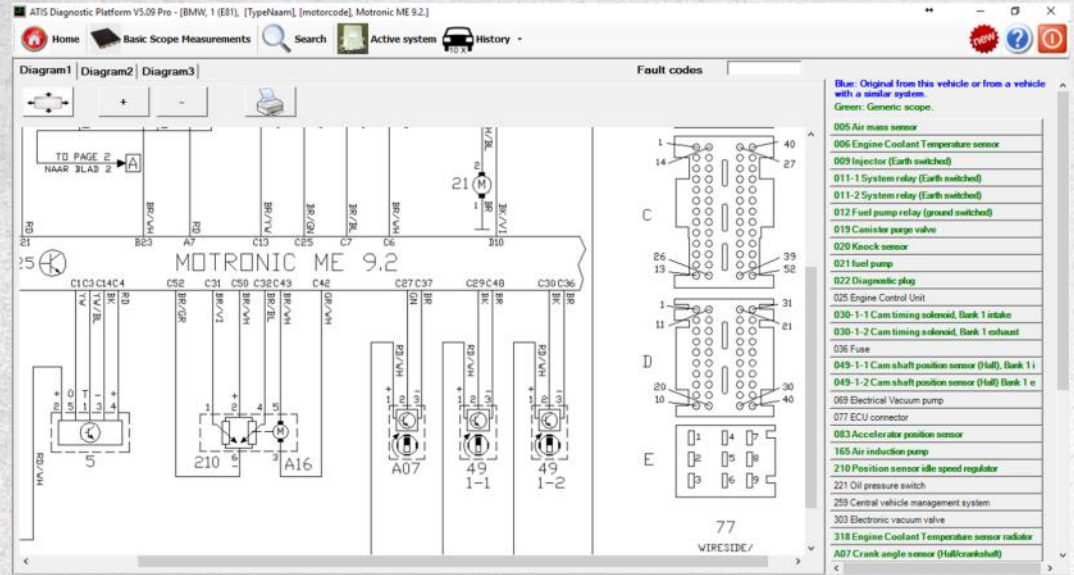
Connect to the right pin every time. ATIS software will show you where and how to connect to a sensor or actuator that you are trying to measure, with easy to follow photos and component location information.



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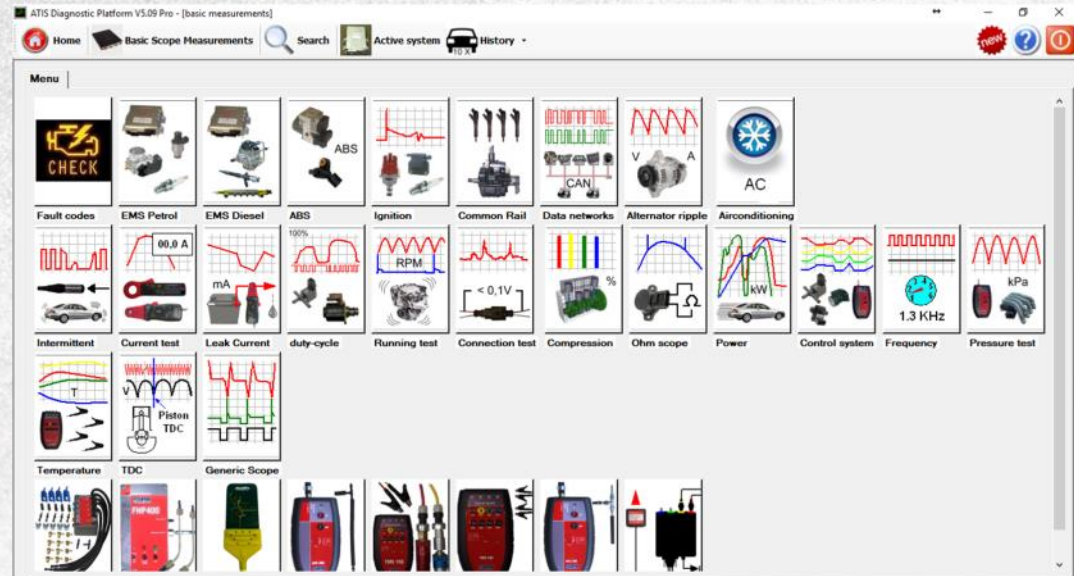
DIAGRAMS

Ever struggled to find the correct wiring diagram for the vehicle you are working on? ATIS contains 1000's of wirings diagrams of engine management, abs, can-data and climate control systems. Excellent for complex European cars.



OPTIONS

Configure your scope kit the way you want it. Go for a kit or add current clamps, accelerometers, return flow sensors, and many more. Each extra has its own specific diagnostic application and pre-set. On a budget, you can always add these extras at a later stage.



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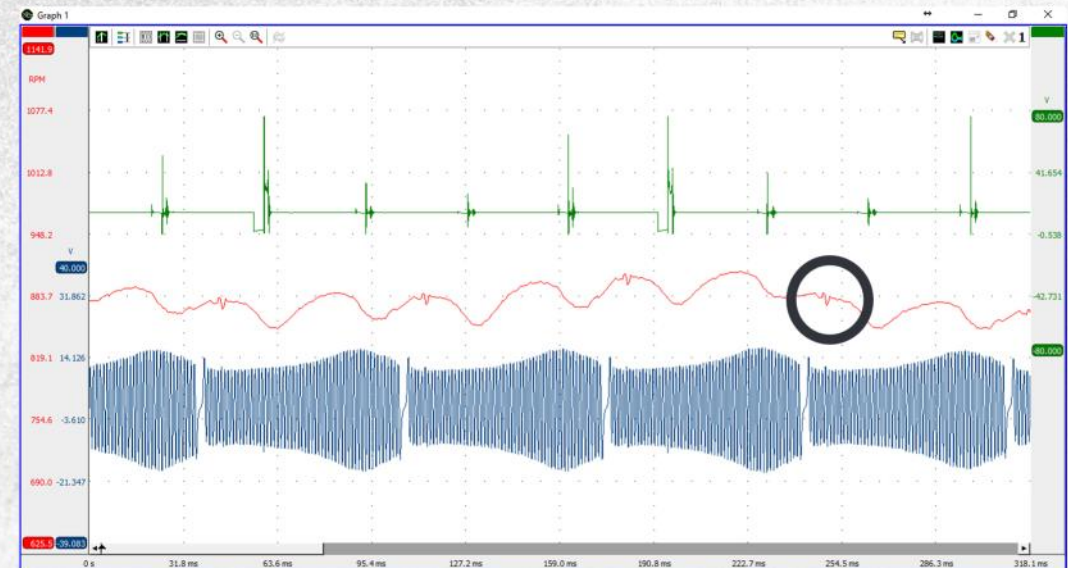
CAPTURE EVERYTHING

The large recording buffers and high sample rates of the ATS Scope range means that you can capture the whole event from key-on, winding over, running to stalling or whatever your application may be. Accessible with easy pre-sets.



SMART

Quickly and accurately identify which cylinder is misfiring with a calculated RPM trace from a crank angle sensor voltage. See what the ECU is trying to achieve by analysing solenoid valves, duty-cycle and many more advanced functions. Unique to ATS scopes.



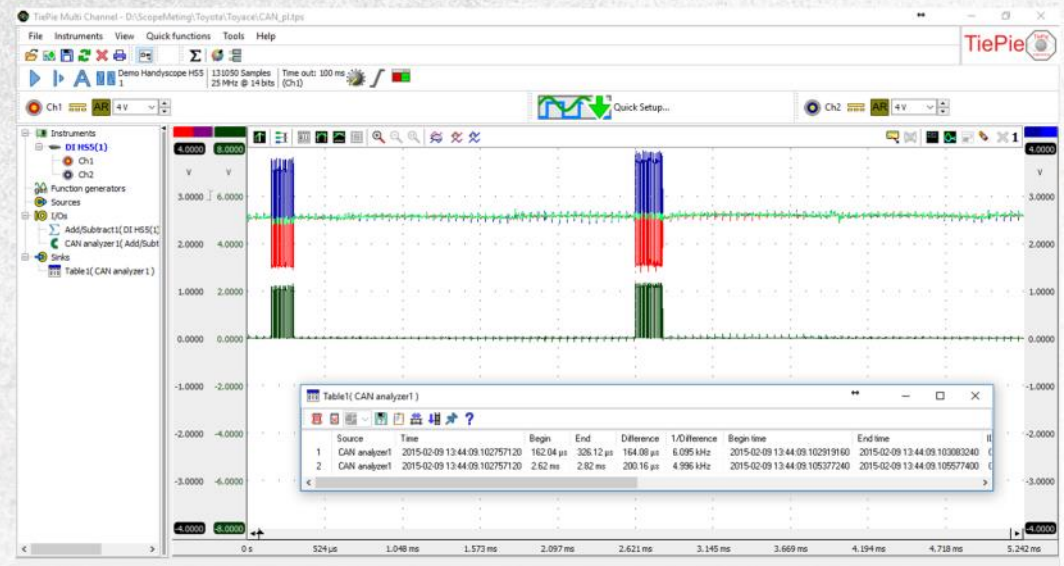
SAMPLE PATTERNS

The Automotive Technical Information system (ATIS) software package which is compatible with any ATS Scope contains 1000's of pre-recorded patterns off vehicles that you will see in your workshop. Ever wondered if that air mass sensor is contaminated? It's easy to check and compare.



THE ANALYST

Advanced signal processing functions allow you to translate CAN databus voltages to data packets enabling you to see what an ECU is saying or find a fault in the communication circuit.



EASY TO FOLLOW

For some of the finest scope accessories, you may want to read how to prepare to get the best recording results the first time. How do you get a KW reading out of the car with a simple G force sensor connected to the scope? Just follow a set of simple on-screen instructions.

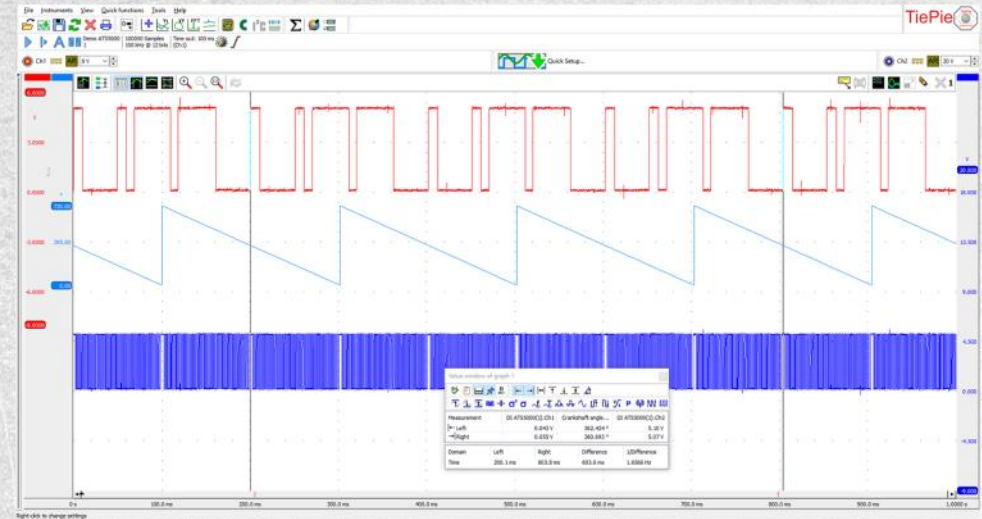
CAM CRANK PRE-SET

You will find in the ATIS database how to 'hook up' your scope, as well as an actual recording of a cam crank, in relation to a new or near new vehicle. Makes it too easy to see if you have a stretched chain or skipped belt.

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CRANK ANGLE CALCULATION

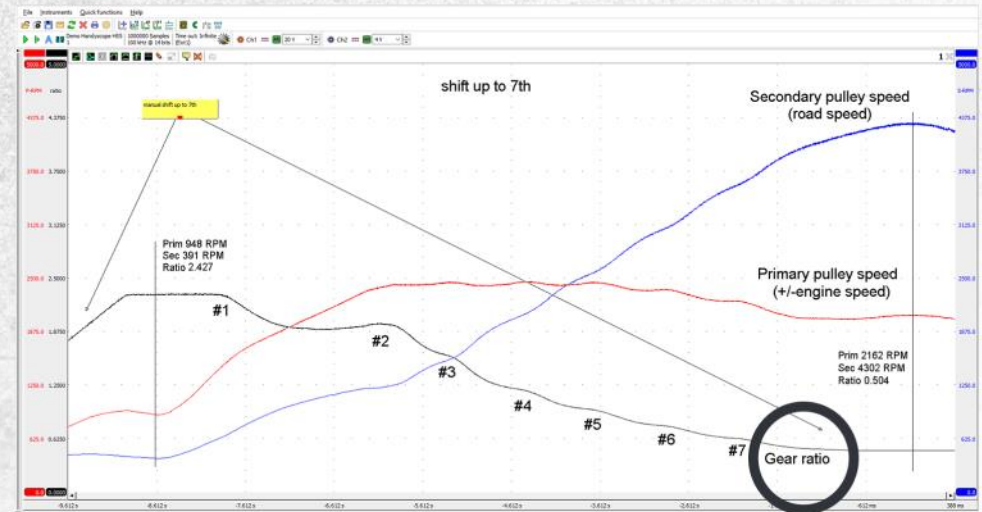
Convert the crankshaft signal to a crank angle degree calculated line. Have the line reset every 360 or 720 degrees. Check for cam timing variations with the utmost precision to detect stretched timing chain. Check injection timing variations to find the source of for example Diesel knock. Use the crank angle function to make an XY graph (ignition over crank angle).



MATHEMATICS

Advanced live mathematic functions. Combine signals with ease. Make complex multi signal diagnostics easy. If you don't understand the signals, AECS provides training and technical support to make it easy!

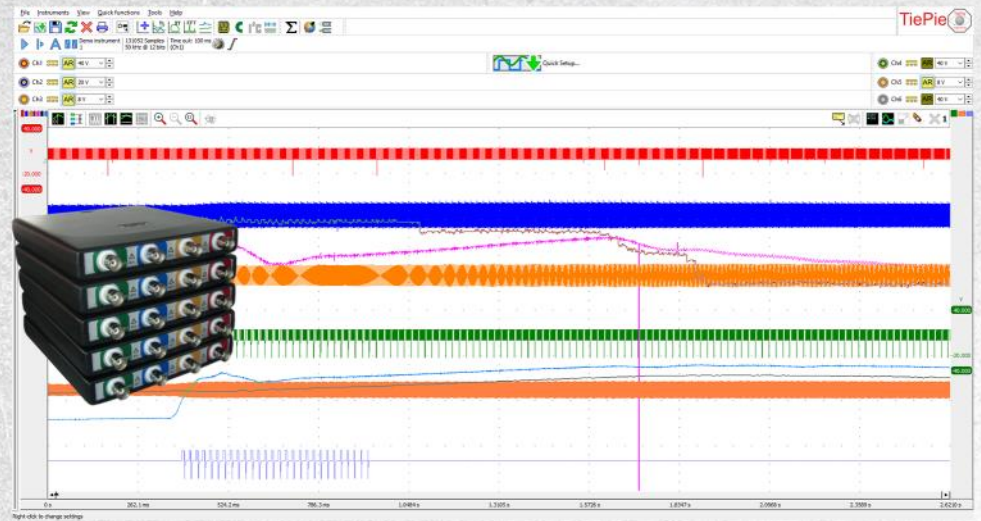
Sample image: CVT diagnostics.



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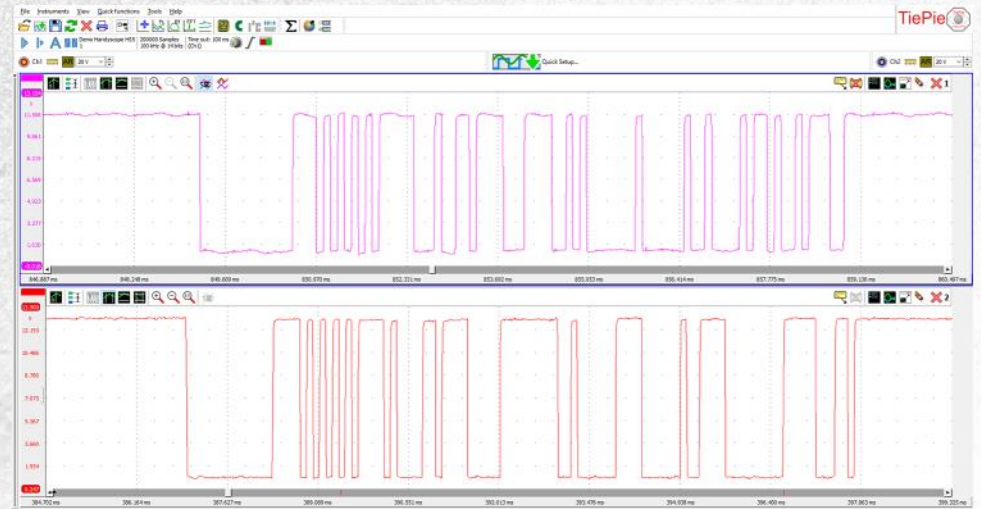
UNIQUE

Join two or more scopes with the ATS scope's unique single source triggering system. For example, measure with a 4 channel ATS scope's channel the crank shaft sensor, and measure with a 2 channel the cam shaft signal. Both will be perfectly sync'd. Unique to ATS scopes.



MULTI-SCREEN

Multiple screens can be setup with the click of a button to compare long recordings in detail. Check to see if a car's signal is good or if it has failed.



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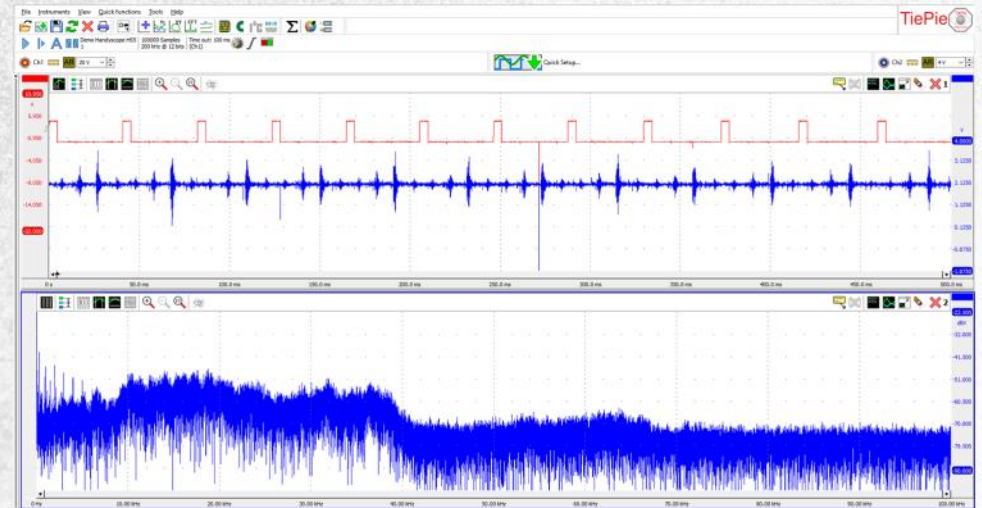
VERY LONG

Need to have a 'long' recording? Record for hours or even longer with the signal logging function. The recordings made in a live scope screen are seamlessly laced (without drop out) in the data logger. A Unique function.



SPECTRUM ANALYSER


Analyse signals (for example a knock sensor) with the standard spectrum analyser. See at what frequency (tone) the knock occurs.



ATS WiFiScope

CONNECT WITH EXPERTS

AECS Technical support forum gives you access to AECS automotive engineers, likeminded oscilloscope users from around the world, and hundreds of technical threads and thousands of recorded patterns. This is an invaluable resource for experienced diagnosticians and first-time scope users.



AECS
Training, Equipment and
Data for Automotive
Diagnostic Specialists

Automotive oscilloscope users network of New Zealand







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Latest news

You are logged in as support at AECS Ltd
There have been 37 new posts since you last visited.

Keyword search :

Latest News - Click on the comments to see the full discussion thread

	Posted by:	Title:	Message:
 	 Reply: Peter Lejen <small>August 7, 2017, 3:57 pm</small>	HOT A4	Hi Guys, We have this Audi 2000cc petrol 4 Cyl which is getting hot due to no fans working. I know the fan control modules give a lot of problems but does anyone know how to test them? Cheers
 	 7401	Hyundai CKP CMP correlation	Hi, got this vehicle from garage in, running extremely rough, first code it comes up with is cam/crank correlation, then O2 heater then various misfire codes after running for half minute. Cam/crank code comes up straight away. Has done 291000kms,.... Hi Peter, this is the reply from Tiepie



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