



Automotive Oscilloscope



Hantek2D82AUTO

2 CH, 80MHz Oscilloscope, DMM, AWG

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Product Features

- With more than 80 automotive guided tests. Quickly learn how to test vehicle with the help video by scanning the QR code on the device's rear;
- First test projects: Intake manifold vacuum degree & ignition, lampblack adjustment valve vacuum degree & ignition, exhaust ignition (idle), exhaust ignition (start);
- Start & Charge: Charging circuit, current and voltage;
- Actuator: Gasoline / Diesel;
- Communication networks: CAN bus data observation, CAN bus signal integrity, CAN bus LH long-term acquisition, LIN bus;
- Sensors: Air flow meter, camshaft, crankshaft, distributor, lambda sensor, throttle position;
- Ignition: Primary/Secondary;
- Wide input sensitivity range: 10mV-10V/div;
- 80MHz bandwidth, 250M sampling rate;
- With 3½ digit multimeter which can be used to measure AC/DC voltage, AC/DC current, resistance, diode, capacitance, and continuity;
- You can edit and download a wave like PWM wave to the built-in waveform generator to output and display on its oscilloscope.

Model		Hantek2D82AUTO	
Support Test	Ignition	Primary Ignition	Primary Ignition (Voltage), Primary Ignition (Current), Primary Ignition (Voltage & Current), Primary Ignition & Crankshaft Sensor, Primary Ignition & Secondary Ignition, Primary Ignition & Injector & Crankshaft & Camshaft
		Secondary Ignition	Distributor Pick-up (Hall Effect), Distributor Inductive Pick-up Cranking, Distributor Inductive Pick-up Running
	Sensors	ABS Sensor	Lambda Sensor Titania, Lambda Sensor Zirconia, Lambda Sensor Zirconia Pre & Post Cat
		Air Flow Meter	Air Flow Meter (Hot Wire), Air Flow Meter (Air Vane), Air Flow Sensor (Bosch Diesel), Air Intake Pressure Sensor (Bosch Diesel)
		Camshaft	Camshaft (Inductive), Camshaft (AC Excited), Camshaft (Hall Effect), Camshaft (Bosch Common Rail Diesel), Crankshaft & Camshaft Sensor
		Coolant Temperature	Coolant Temperature (5V), Coolant Temperature (GM/Vauxhall Simtec)
		Crankshaft	Crankshaft Inductive Running, Crankshaft Inductive Cranking, Crankshaft Hall Effect, Crankshaft Sensor & Primary Ignition
		Distributor	Distributor Pick-up (Hall Effect), Distributor Inductive Pick-up Cranking, Distributor Inductive Pick-up Running
		Lambda Sensor	Lambda Sensor Titania, Lambda Sensor Zirconia, Lambda Sensor Zirconia Pre & Post Cat
		MAP Sensor	MAP Analog, MAP Digital
		Throttle Position	Throttle Position Potentiometer, Throttle Position Switch, Throttle Pedal Switch (Bosch Diesel)
		Other Sensors	Accelerator Pedal (Bosch Diesel), Crash Sensor, Hall Effect Road Speed Sensor, Knock Sensor
	Network	CAN L&H	CAN Bus Data View, CAN Bus Signal View, CAN Bus LH Long Capture
		LIN Bus	LIN Bus Engine Off Diagnosis
		Others	K-Line, FlexRay
	Engine	Petrol	Single-point Injector (Voltage), Single-point Injector (Current), Multi-point Injector (Voltage), Multi-point Injector (Current), Injector Voltage & Current, Injector Current & Primary Ignition
		Diesel	Common Rail Diesel (Current), Injector Bosch CDI 3 (Current), Injector Bosch Diesel (Idling), Injector Bosch Diesel (Accelerating)
	Startup & Charge	Charging Circuits	Charging Circuits Current/Voltage, Charging Circuits Current/Voltage Starting 24V, Charging Circuits Current/Voltage Idling 24V, Charging Circuits Alternator AC Ripple/Diode Diagnosis
		Relative Compression	Relative Compression Petrol, Relative Compression Diesel, Starting Voltage Drop
Oscilloscope	Channels	2	
	Bandwidth	80MHz	
	Sample Rate	250MSa/s all channels, 125MSa/s half channel	
	Time Base Range	5ns/div - 500s/div (1-2-5 sequences)	
	Input Sensitivity	10mV/div - 10V/div at BNC input	
	Max. Input Voltage	150V _{RMS}	
Generator	Output Channel	1	
	Output Waveforms	Sine, Square, Triangle, Arbitrary	
	Max. Frequency	25MHz	
	Amplitude	2.5Vpp (50Ω), 5Vpp (High impedance)	
DMM	Max. Resolution	4,000 Counts	
	Testing Modes	Voltage, Current, Resistance, Capacitance, Diode, On-Off	
	Max. Input Voltage	AC: 600V, DC: 800V	
	Max. Input Current	AC: 10A, DC: 10A	
	Input Impedance	10MΩ	
General	Power Supply	AC Adapter	Input: 100V-240VAC, 50Hz-60Hz; Output: 5VDC, 2A
		Battery	Lithium battery 3.7V 2, 600mA x 2
	Dimensions	199 x 98 x 40mm (L x W x D)	
	Weight	400g	

Standard Accessories

Model	Hantek2D82AUTO I	Hantek2D82AUTO II	Hantek2D82AUTO III
Power Adapter, Type C Cable, Multimeter Probe	1	1	1
Alligator Clip HT324	2	2	2
Auto test Leads HT30B	1	2	2
Auto Ignition Probe HT25	1	2	2
Acupuncture Probe Set HT307	1	1	2
COP Extension Cord HT308	1	2	2
20:1 Attenuator HT201	1	2	2
Large Dolphin/Gator Clips HT18A	1	1	2
Breakout Leads HT301	--	--	--
6 Way Breakout Leads HT306 (2.8mm)	--	1	1
6 Way Breakout Leads HT306 (2.3mm)	--	--	1
6 Way Breakout Leads HT306 (1.5mm)	--	--	1
6 Way Breakout Leads HT306 (1.0mm)	--	--	1
65A AC/DC Current Clamp CC65	--	--	1
650A AC/DC Current Clamp CC650	--	--	1