

## Automotive Sensor Simulators Comparison Table

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**AutoSim Pro**

**AutoSim**

	<b>AutoSim Pro</b>	<b>AutoSim</b>
Ultra fast boot time	Yes	Yes
Sampling rate	200 KSa/s	100 KSa/s
Settling Time	4.5 $\mu$ s	5 $\mu$ s
Resolution	12 bit	10 bit
Maximum output frequency	20 kHz	10 kHz
Output channels	2	1
Signal output (S.out)	Yes	Yes
Power output (P.out)	Yes	No
Standart operating modes	Waveforms, DC, Pulse	Waveforms, DC
Built-in automotive presets	Yes	Yes
High current PWM control	Yes	No
Display	TFT LCD Color Display	LCD, Yellow-Green
Data storage	Internal SD card	No
Firmware Update possibility	Yes	No

### Signal output:

	Positive and Negative	Positive only
Output polarity	Positive and Negative	Positive only
Output amplitude	$\pm$ 10 mV ~ $\pm$ 12 V (10 mV step)	100 mV ~ 12 V (100 mV step)
DC voltage output range	$\pm$ 10 mV ~ $\pm$ 12 V (10 mV step)	100 mV ~ 12 V (100 mV step)
Output current	$\pm$ 30 mA maximum	120 mA maximum
Vertical resolution	12 bits	10 bits
Waveforms	Sine, Square, Triangular, Ramp	Square
Sine wave frequency range	0.1 Hz ~ 5 kHz	n.a.
Ramp/Triangular frequency range	0.1 Hz ~ 5 kHz	n.a.
Square wave frequency range	0.1 Hz ~ 20 kHz	0.1 Hz ~ 10 kHz
Square wave duty cycle range	5% ~ 95 %, step 0.1%	10% ~ 90 %, step 5%
Pulses	1 ~ 100	n.a.
Pulse width	1 ms ~ 1 sec	n.a.
Pulse period	2 ms ~ 5 sec	n.a.

### Power output:

	Positive	n.a.
Output polarity	Positive	n.a.
Amplitude	12 V	n.a.
Max. output current	4 A continuous	n.a.
Active level	"switched earth"	n.a.
Output frequency range	up to 2 kHz	n.a.
PWM duty cycle range	1% ~ 100%	n.a.
Duty cycle setting accuracy	0.1%	n.a.
Thermal shutdown	Yes	n.a.
Over voltage protection	Yes	n.a.
Current limitation	Yes	n.a.
Short circuit protection	Yes	n.a.

### Power

	12V, 24V DC	12V, 24V DC
Automotive battery	12V, 24V DC	12V, 24V DC
Power supply range	10V DC to 36V DC	10V DC to 28V DC
Quiescent power current	$\leq$ 160mA	$\leq$ 230mA
Power connector	Pluggable Terminal Block, 2 pin	DC Power Jack, 2.5 x 5.5 mm

### General Specifications

	-20°C to +35°C	-10°C to +50°C
Operating temperature	-20°C to +35°C	-10°C to +50°C
Size	160 mm x 94 mm x 25 mm	190 mm x 100 mm x 45 mm
Weight	500 g	350 g
Warranty	2 years	1 year