

Select your most suitable Velleman scope

velleman[®]
INSTRUMENTS



OSCILLOSCOPES RANGE	PCS10	PCS100(A)	PCS500(A)	PCSU1000
Number of channels	4	1	2	2
Maximum sample rate	100S/s	32MS/s	2 x 1GS/s	2 x 1GS/s
Maximum bandwidth	Slow signal	12MHz all ranges	50MHz all ranges	2 x 60MHz
Real time sample rate		32MS/s	2 x 50MS/s	2 x 50MS/s
Number of screen layouts	2	1	1	2
Screen size (pixels)	apr. 550x295	apr. 520x295	apr. 520x295	apr. 950 x510
LCD backlight				
Memory length (bytes)		4096	2 x 4096	2 x 4096
Resolution	8 bit	8 bit	8 bit	8 bit
Sensitivity Vpp	10mV	0.3mV	0.1mV	0.1mV
Volt / div range	3V to 30V range	10mV to 3V / 6 st	5mV to 15V / 8 st	5mV to 2V / 9 st
Maximum volt. with x 10 probe		120VDC incl ACp	600VDC incl ACp	30VAC + DC
Fastest time / div	1s	0.1µs	0.02µs	0.02µs
Slowest time / div	1000s	2000s	2000s	2000s
Data or screen to computer	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PC Software	PC-Lab2000 CD	PC-Lab2000 CD	PC-Lab2000 CD	PC-Lab2000 SE
Operation through computer	USB	Opto isolated LPT	Opto isolated LPT	USB
Screen memories	PC harddisk	PC harddisk	PC harddisk	PC harddisk
Stand alone operation				
Oscilloscope probe included		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> x 2	<input checked="" type="checkbox"/> x 2
Recorder mode	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Spectrum analyser mode		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Bode plot option (+ PCG10)		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
X position and Y position shift		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
X 10 probe calculation option				<input checked="" type="checkbox"/>
Adjustable trigger level		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
External trigger input			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pre trigger function			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Zoom function for time/div	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Auto set-up FULL				
Auto set-up SEMI		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Dynamic screen for markers				
Signal markers (dt / dV / 1/dt)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Audio power calculation				
Gain measurement				
dBm measurement		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
dBV measurement			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AC only true rms display		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AC + DC true rms display			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
DC measurement	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AC+DC max / min / pk to pk			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Duty Cycle / pos neg width			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Rise / Fall time			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Period / Frequency / Phase		Markers	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Auto power off option				
Battery / rechargeable battery				
Low battery indication				
Battery charge circuit				
Holster included (BAGHPS)				
Soft bag (GIB)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hard case (CASEHPS)				
Upgradeable firmware / software	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Panel mount type				



OSCILLOSCOPES RANGE	PPS10	HPS10 / HPS10SE	VPS10	HPS40	APS230
Number of channels	1	1	1	1	2
Maximum sample rate	10MS/s	10MS/s	10MS/s	40MS/s	2 x 240MS/s
Maximum bandwidth	to 2MHz	to 2MHz	to 2MHz	to 12MHz	30MHz (ex. 1&2mV)
Real time sample rate	1MS/s	1MS/s	1MS/s	5MS/s	2 x 60MS/s
Number of screen layouts	5	5	6	5	5
Screen size (pixels)	128x64	128x64	128x64	192x112	192x128
LCD backlight		White/Blue for SE	White/Blue	<input checked="" type="checkbox"/>	White
Memory length (bytes)	256	256	256	256	2 x 256
Resolution	8 bit	8 bit	8 bit	8 bit	8 bit
Sensitivity Vpp	0.1mV	0.1mV	0.1mV	0.1mV	0.03mV
Volt / div range	5mV to 20V / 12 steps	5mV to 20V / 12 steps	5mV to 20V / 12st	5mV to 20V / 12st	1mV to 20V / 14 st
Maximum volt. with x 10 probe	600VDC incl ACp	600VDC incl ACp	600VDC incl ACp	600VDC incl ACp	600VDC incl ACp
Fastest time / div	0.2µs	0.2µs	0.2µs	0.05µs	0.025µs
Slowest time / div	3600s	3600s	3600s	3600s	3600s
Data or screen to computer	<input checked="" type="checkbox"/> RS232			<input checked="" type="checkbox"/> RS232	<input checked="" type="checkbox"/> RS232
PC Software	Download only			Download only	Download only
Operation through computer					Yes opto- RS232
Screen memories	2	2		2	1
Stand alone operation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Oscilloscope probe included	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Recorder mode	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Spectrum analyser mode					
Bode plot option (+ PCG10)					
X position and Y position shift	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
X 10 probe calculation option	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Adjustable trigger level				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
External trigger input					Via other channel
Pre trigger function					<input checked="" type="checkbox"/>
Zoom function for time/div					
Auto set-up FULL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Auto set-up SEMI					
Dynamic screen for markers	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
Signal markers (dt / dV / 1/dt)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Audio power calculation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Gain measurement					<input checked="" type="checkbox"/>
dBm measurement	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
dBV measurement	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AC only true rms display	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AC + DC true rms display	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
DC measurement	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AC+DC max / min / pk to pk	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Duty Cycle / pos neg width					
Rise / Fall time					
Period / Frequency / Phase	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> via markers	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> via markers		<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> via markers	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> via markers
Auto power off option	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Battery / rechargeable battery	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	Included
Low battery indication	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Battery charge circuit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	Fast charge
Holster included (BAGHPS)		<input type="checkbox"/>		<input checked="" type="checkbox"/>	
Soft bag (GIB)					<input type="checkbox"/>
Hard case (CASEHPS)		SE version		<input checked="" type="checkbox"/>	
Upgradeable firmware / software					<input checked="" type="checkbox"/>
Panel mount type			<input checked="" type="checkbox"/>		

= Yes = Option