velleman® INSTRUMENTS

NEW

Select your most suitable Velleman scope.

OSCILLOSCOPES RANGE	PCS10	PCS100A	PCS500A	PCSU1000	PCSGU250
Number of channels	4	1	2	2	2
Maximum sample rate	100S/s	32MS/s	2 x 1GS/s	2 x 1GS/s	2 x 25MS/s
Maximum bandwith	Slow signal	12MHz all ranges	50MHz all ranges	2 x 60MHz	2 x 12MHz
Real time sample rate		32MS/s	2 x 50MS/s	2 x 50MS/s	2 x 25MS/s
Number of screen layouts	2	1	1	2	1
Screen size (pixels)	apr. 550x295	apr. 520x295	apr. 520x295	apr. 950 x510	320 x 295
LCD backlight					
Memory length (bytes)		4096	2 x 4096	2 x 4096	2 x 4096
Resolution	8 bit	8 bit	8 bit	8 bit	8 bit
Sensitivity Vpp	10mV	0.3mV	0.1mV	0.1mV	0.3mV
Volt /div range	3V to 30V range	10mV to 3V / 6 st	5mV to 15V / 8 st	5mV to 2V / 9 st	10mV / 63V
Maximum volt. with x 10 probe		120VDC incl ACp	600VDC incl Acp	30VAC + DC	30VAC + DC
Fastest time / div	1s	0.1µs	0.02µs	0.02µs	0.1µs
Slowest time / div	1000s	2000s	2000s	2000s	500ms
Data or screen to computer	✔	✔	✔	✔	✔
PC Software	PC-Lab2000 CD	PC-Lab2000 CD	PC-Lab2000 CD	PC-Lab2000 SE	PC-Lab2000 LT
Operation through computer	USB	Opto isolated LPT	Opto isolated LPT	USB	USB
Screen memories	PC harddisk	PC harddisk	PC harddisk	PC harddisk	PC harddisk
Stand alone operation					
Oscilloscope probe included		✔	✔ x 2	✔ x 2	✔ x 1
Recorder mode	✔	✔	✔	✔	✔
Spectrum analyser mode		✔	✔	✔	✔
Bode plot option		✔ (+ PCG10)	✔ (+ PCG10)	✔ (+ PCGU1000)	✔
X position and Y position shift		✔	✔	✔	✔
X 10 probe calculation option				✔	✔
Adjustable trigger level		✔	✔	✔	✔
External trigger input				✔	✔
Pre trigger function				✔	✔
Zoom function for time/div	✔	✔	✔	✔	✔
Auto set-up FULL					
Auto set-up SEMI		✔	✔	✔	✔
Dynamic screen for markers					
Signal markers (dt / dV / 1/dt)	✔	✔	✔	✔	✔
Audio power calculation					
Gain measurement					
dBm measurement		✔	✔	✔	✔
dBV measurement			✔	✔	✔
AC only true rms display		✔	✔	✔	✔
AC + DC true rms display			✔	✔	✔
DC measurement	✔		✔	✔	✔
AC+DC max / min / pk to pk			✔	✔	✔
Duty Cycle / pos neg width			✔	✔	✔
Rise / Fall time			✔	✔	✔
Period / Frequency / Phase		Markers	✔ ✔ ✔	✔ ✔ ✔	✔ ✔ ✔
Auto power off option					
Battery / rechargeable battery					
Low battery indication					
Battery charge circuit					
Holster included (BAGHPS)					
Soft bag (GIB)			✗	✗	✗
Hard case (CASEHPS)					
Upgradeable firmware / software	✔	✔	✔	✔	✔
Panel mount type					

✔ = Yes   ✗ = Option

NEW

OSCILLOSCOPES RANGE	PPS10	HPS10 / HPS10SE	VPS10	HPS40	APS230	HPS50
Number of channels	1	1	1	1	2	1
Maximum sample rate	10MS/s	10MS/s	10MS/s	40MS/s	2 x 240MS/s	40MS/s
Maximum bandwith	to 2MHz	to 2MHz	to 2MHz	to 12MHz	30MHz (ex. 1&2mV)	12MHz
Real time sample rate	1MS/s	1MS/s	1MS/s	5MS/s	2 x 60MS/s	5MS/s
Number of screen layouts	5	5	6	5	5	5
Screen size (pixels)	128x64	128x64	128x64	192x112	192x128	192x112
LCD backlight		White/Blue for SE	White/Blue	✔	White	White
Memory length (bytes)	256	256	256	256	2 x 256	2 x 256
Resolution	8 bit	8 bit	8 bit	8 bit	8 bit	8 bit
Sensitivity Vpp	0.1mV	0.1mV	0.1mV	0.1mV	0,03mV	0,1mV
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	5mV to 20V / 12 st
Maximum volt. with x 10 probe	600VDC incl ACp	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	0.005µs
Slowest time / div	3600s	3600s	3600s	3600s	3600s	3600s
Data or screen to computer	RS232			RS232	RS232	USB
PC Software	Download only			Download only	Download only	Download only
Operation through computer					Yes opto- RS232	USB
Screen memories	2	2		2	1	2
Stand alone operation	✔	✔		✔	✔	✔
Oscilloscope probe included	✔	✔	✔	✔	✔ x2	✔
Recorder mode	✔	✔	✔	✔	✔	✔
Spectrum analyser mode						
Bode plot option (+ PCG10)						
X position and Y position shift	✔	✔	✔	✔	✔	✔
X 10 probe calculation option	✔	✔	✔	✔	✔	✔
Adjustable trigger level				✔	✔	✔
External trigger input					via other channel	
Pre trigger function					✔	
Zoom function for time/div						
Auto set-up FULL	✔	✔	✔	✔	✔	✔
Auto set-up SEMI						
Dynamic screen for markers	✔	✔		✔		✔
Signal markers (dt / dV / 1/dt)	✔	✔		✔	✔	✔
Audio power calculation	✔	✔	✔	✔	✔	✔
Gain measurement					✔	
dBm measurement	✔	✔	✔	✔	✔	✔
dBV measurement	✔	✔	✔	✔	✔	✔
AC only true rms display	✔	✔	✔	✔	✔	✔
AC + DC true rms display	✔	✔	✔	✔	✔	✔
DC measurement	✔	✔	✔	✔	✔	✔
AC+DC max / min / pk to pk	✔	✔	✔	✔	✔	✔
Duty Cycle / pos neg width						
Rise / Fall time						
Period / Frequency / Phase	✔ ✔ via markers	✔ ✔ via markers		✔ ✔ via markers	✔ ✔ via markers	✔ ✔ via markers
Auto power off option	✔	✔		✔	✔	✔
Battery / rechargeable battery	✔	✔		✔	included	included
Low battery indication	✔	✔		✔	✔	✔
Battery charge circuit	✔	✔		✔	fast charge	✔
Holster included (BAGHPS)		✗		✔		✔
Soft bag (GIB)					✗	
Hard case (CASEHPS)		SE version only		✔		✔
Upgradeable firmware / software					✔	
Panel mount type			✔			

✔ = Yes   ✗ = Option

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