



DIGITAL OSCILLOSCOPES RANGE	HPS10 / HPS10SE	HPS40	APS230	PCS100	PCS500
Number of channels	1	1	2	1	2
Maximum sample rate	10MS/s	40MS/s	2 x 240MS/s	32MS/s	2 x 1GS/s
Maximum bandwidth	up to 2MHz	up to 12MHz	30MHz (ex. 1&2mV)	12MHz all ranges	50MHz all ranges
Real time sample rate (single shot event)	1MS/s	5MS/s	2 x 60MS/s	32MS/s	2 x 50MS/s
Number of screen layout modes	5	5	5	1	1
LCD screen / PC signal screen size (pixels)	128x64	192x112	192x128	apr. 520x295	apr. 520x295
LCD backlight	White/Blue for SE version	<input checked="" type="checkbox"/>	WHITE	/	/
Memory length (bytes)	256	256	256	4096	2 x 4096
Sensitivity Vpp	0.1mV	0.1mV	0.03mV	0.3mV	0.1mV
Volt / div range and number of steps	5mV to 20V / 12steps	5mV to 20V / 12steps	1mV to 20V / 14 steps	10mV to 3V / 6 steps	5mV to 15V / 8 steps
Maximum visible voltage with X 10 probe	600VDC incl ACp	600VDC incl ACp	600VDC incl ACp	120VDC incl ACp	600VDC incl ACp
Fastest time / div	0.2µs	0.05µs	0.025µs	0.1µs	0.02µs
Slowest time / div in recorder or roll mode	3600s	3600s	3600s	2000s	2000s
Data or screen capture to computer		<input checked="" type="checkbox"/> RS232	<input checked="" type="checkbox"/> RS232	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PC software	/	Download only	Download only	PC-Lab2000 CD	PC-Lab2000 CD
Operation through computer (LPT port)			Yes opto- RS232	Optical isolated LPT	Optical isolated LPT
Screen memories	2	2		PC harddisk	PC harddisk
Stand alone operation (portable)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Standard oscilloscope probe compatible	<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				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Bode plot option if used with PCG10 generator	/	/	/	<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"/>	<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"/>		
Adjustable trigger level		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
External trigger input			Via other channel		<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"/>
Screen memory compare / recall	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
DVM with X10 probe option	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Auto set-up FULL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Auto set-up SEMI				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Dynamic screen (auto fit) for markers	<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"/>	<input checked="" type="checkbox"/>
Audio power calculation	<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"/>		
AC only true rms measurement	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AC + DC true rms measurement	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
DC measurement with zero reference set-up	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Mathematical functions CH1+Ch2, Invert...					<input checked="" type="checkbox"/>
Auto power off option	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	/	/
Demo mode	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/> (software)	<input checked="" type="checkbox"/> (software)
Battery / rechargeable battery operation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Included		
Low battery indication	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	/	/
Battery charge circuit	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Fast	/	/
Holster included (BAGHPS)	<input type="checkbox"/>	<input checked="" type="checkbox"/>		/	/
Case (GIB)	/	/	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Oscilloscope probe included (PROBE60S)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Hard carrying case (CASEHPS)	SE version	<input checked="" type="checkbox"/>	/	/	/
upgradeable firmware	/	/	<input checked="" type="checkbox"/>	/	/
upgradeable software	/	/	/	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

= Option