

Feature	Wandel & Goltermann SPM-3x	Wandel & Goltermann PS-33	Heuer Instruments - http://www.heuer.com.au LT51
			
Generator			
Output Connector (balanced)		TX: 3 pole CF socket	TX: 2 sockets (4mm, 19mm pitch)
Output Impedances (balanced)		10, 75, 150, 600	50, 75, 600 Ohms
Output Connector (unbalanced)		Coaxial: Versacon 9 Universal	
Output Impedances (unbalanced)		5, 50, 75 Ohms	
Frequency Setting		50 Hz to 2 MHz keypad	100 Hz to 2.2 MHz keypad + knob
Level, Accuracy, THD		Similar	Similar
Receiver			
Input Connector (balanced)	RX: 3 pole CF socket		RTX: 3 sockets (4mm, RTxA-b: 19mm pitch)
Input Impedance (balanced)	75, 150, 600, high impedance		>45k, 50, 75, 600
Input Connector (unbalanced)	Coaxial: Versacon 9 Universal		
Input Impedances (unbalanced)	75, high impedance		
Frequency Range	SPM-32A: 50 Hz to 620 kHz SPM-33A: 50 Hz to 2 MHz SPM-36A: 50 Hz to 3.5 MHz		100 Hz to 2.3 MHz
Frequency Setting	keypad, up/down, Auto search		keypad, knob entry, Auto search
Level Accuracy / Freq Response	Similar		Similar
Bandwidth	25 Hz, 1.74 kHz, 3.1 kHz		Resolution BW: 29 Hz to 38.75 kHz
Intrinsic distortion	> 60 dB		> 60 dB
Demodulator	Single Sideband Demodulation		
Measurements			
SPECTRUM ANALYSER			FFT with frequency zoom
LEVEL, LOSS, STABILITY(1kHz), INSERTION LOSS vs FREQUENCY	Similar	Similar	Similar
IDLE CHANNEL NOISE			Psophometer ITU-T O.41, C-Message, 3kHz, 15 KHz
DISTORTION			THD, SNR, SINAD, SFDR (200Hz to 2.2 MHz)
IMPULSE NOISE (ITU-T O.61)			RX: Wideband (~5 MHz)
RETURN LOSS			0 to 40 dB
LCL, OSB BALANCE			0 to 60 dB
POWER SPECTRAL DENSITY			Down to 150 dBm/Hz
TELEPHONE			DTMF dialling, built-in speaker phone
TDR			upto 3,800 m (PVF = 0.70)
VDC			0 to 160 V
LOOP CURRENT			0 to 70 mA
VAC			0 to 120 V
INSULATION RESISTANCE			200Vdc Source, upto 1000 Mohms
RESISTANCE FAULT LOCATOR			0-7 kohm Loop, 20 Mohm Fault resistance
AC IMPEDANCE (R and Capacitance)			0 to 4kohm, 1 to 1000 nF
MASTER-SLAVE			With 2 instruments perform end-end testing
Special functions			
Max Levels at all connectors	24 dBm, 60V	24 dBm, 60V	24 dBm, 100V to GND, 200V floating
DC Loop Holding			RTX: DC termination (Zin), < 70 mA
Other Connections			USB type B: PC 2.1mm DC socket: Charging
Memory	100 device + 100 results	100 device settings	store & display results (upload to PC)
PC Interface			USB
Remote Control			LT51View PC application
Display	4 x 16 line character LCD	4 x 16 line character LCD	320x240 graphic LCD (w LED backlight)
Power Supply	Battery (2pcs 9V) or AC line	Battery (2pcs 9V) or AC line	Battery (3pcs AA), AC line
Operating Time	Dry cell: 8hrs, NiMH: 2 hrs	Dry cell: 8hrs, NiMH: 2 hrs	NiMH: > 8hrs
Dimensions (w x h x d) in mm	110 x 200 x 60	110 x 200 x 60	155 x 190 x 40
Weight	1 kg	1 kg	700 g