

Feature	Wandel & Goltermann Acterna JDSU PCM-23 (BN2035/01 opt)	Heuer Instruments http://www.heuer.com.au LT51-PCM
Generator		
Output Connector (balanced, floating)	TX: 3 pole CF socket	TXa-b: 2 sockets (4mm, 19mm pitch)
Output Impedances	0, 600, TN12 (220+120nF 820)	75,600,TN12 (220+120nF 820) ohms
Output Signals		
Sinewave	200 Hz to 4 kHz	200 Hz to 4 kHz(600,TN12), 2 to 2,200 kHz(75 ohms)
Noise Signal	to ITU-T O.131	
Telephone Signal	to ITU-T G.227	to ITU-T G.227
Receiver		
Input Connector (balanced, floating)	RX: 3 pole CF socket	RTXa-b-g: 3 sockets (4mm, RTXa-b:19mm pitch)
Input Impedance	>30k, 600, TN12 (220+120nF 820)	>45k, 75,600,TN12 (220+120nF 820) ohms
Input Filters		
Bandpass	0.2 to 4kHz; 1kHz 350 to 550Hz (ITU-T O.131) 800 to 3400Hz (ITU-T O.131)	0.2 to 4 kHz (other spans upto 2.2 MHz) C-Message, 3 kHz LP, 15 kHz LP
Band Stop (Notch)	1 kHz (ITU-T O.132)	Selective Level Meter (Resolution BW from 29 Hz)
Psophometric	to ITU-T O.41	to ITU-T O.41
Measurements		
SPECTRUM ANALYSER		FFT with frequency zoom
LEVEL, LOSS, STABILITY(1kHz), INSERTION LOSS vs FREQUENCY	Similar	Similar
GAIN vs LEVEL	TX: 1 kHz or ITU-T O.131 Noise RX: 1kHz BPF or 350-550 Hz BPF	TX: 1 kHz RX: 0.2 - 4 kHz Span (29 Hz BPF at any frequency)
CROSS TALK	TX: 1 kHz or Telephone Signal RX: 1kHz BPF or Psophometer	TX: 1 kHz or Telephone Signal RX: 0.2 - 4 kHz Span (29 Hz BPF) or Psophometer
IDLE CHANNEL NOISE	Psophometer ITU-T O.41	Psophometer ITU-T O.41
S/Q (ITU-T O.131)	TX: ITU-T O.131 Noise RX: 350-550Hz + 0.8 - 3.4kHz BPF	
S/Q (ITU-T O.132)	TX: 1kHz signal, RX: 1kHz Notch (+ Psophometer)	TX: 1kHz signal, RX: Distortion Meas (+ Psophometer)
DISTORTION		THD, SNR, SINAD, SFDR (200Hz to 2.2 MHz)
RETURN LOSS		0 to 40 dB
LCL, OSB BALANCE		0 to 60 dB
TELEPHONE		DTMF dialling, built-in speaker phone
TDR		upto 7,600 m (PVF = 0.70)
VDC	0 to 20V	0 to 60V
LOOP CURRENT		0 to 70 mA
VAC		0 to 60 V
AC IMPEDANCE (MAGZ)		0 to 4kohm, 200 Hz to 1 MHz
Special functions		
General Accuracy	Similar	Similar
Max Levels at all connectors	24 dBm, 60V	24 dBm, 60V
DC Loop Holding	TX: AC termination (> 100k), < 80mA RX: AC termination (> 100k), < 80mA	RTX: DC termination (Zin), < 70 mA
Other Connections		USB type B: PC 2.1mm DC socket: Charging store & display results (upload to PC) save device setup at switchoff
Memory	100 device settings	> 200k samples, sampling intervals: 1s to 60s
Recording Function		
PC Interface		USB
Remote Control		LT51View PC application (free)
Display	4 x 16 line character LCD	320x240 graphic LCD (w LED backlight)
Power Supply	Battery (2pcs 9V) or AC line	Battery (3pcs AA), AC line
Operating Time	Dry cell: 8hrs, NiMH: 2 hrs	NiMH: > 8hrs
Soft Nylon Carry Bag		Included, pockets for accessories/manual/cables
Dimensions (w x h x d) in mm	110 x 200 x 60	155 x 190 x 40
Weight	1 kg	700 g