



Analyzer

TEST &
MEASURING
INSTRUMENTS

2.9GHz Handheld Spectrum Analyzer / Tracking Generator



Protek 7830+G632

Protek 7830 is the ideal spectrum analyzer for cost-effective signal investigations in the field. Protek 7830 provides a minimum set of required measurement functions such as channel power and delta markers, and enables field technicians to focus on handling their essential jobs from the installation or maintenance on-site without distraction.



Features

Frequency Range (100kHz ~ 2.9GHz)

W-FM / N-FM / AM / SSB Measurement and Demodulation

Free run, Single run, Squelch run sweep mode

100 save and load function for waveforms

Marker / Delta Marker / Squelch adjustment function

Peak search and Marker to center function

Channel power measurement

RS-232C interface



Specification

		Protel 7830	G632(7830)
1	Frequency	Range	100 kHz to 2.9 GHz
		Resolution	Min. 6.25 kHz
		Accuracy	TCXO : ± 3 PPM / Display : ± 1.5 PPM
		Modulation Bandwidth	Wide FM : Approx. 180 kHz(-6dB)
			Narrow FM : Approx 12.5 kHz/AM/SSB : Approx 2.4 kHz(-6dB)
		Step Range	6.25 kHz, 12.5 kHz
		Frequency Selection Mode	Center, Start/Stop, Span
2	Amplitude	Measurement Range	-20 dBm to -110 dBm
		Average Noise Level	Wide FM / AM / SSB : -100 dBm Max. Narrow FM : -110dBm Max.
		Amplitude Units	dBm, dBmV, dBuV
		Reference Level Accuracy	Wide FM Typical ± 1.5 dB(20°C ~ 30°C)
			Narrow FM/AM/SSB Typical ± 1.5 dB(25°C)
		Reference Level Range	-80dBm to 0 dBm
		Log Scale	0.2 dB/DIV Min. In 0.25 dB Span (5 Display Division)
Internal Atten	10 dB, 20 dB, 30 dB, 35 dB Max.		
3	Sweep	Speed	Min. 500 msec
		Trigger Source	Narrow FM / Wide FM / AM / SSB
		Trigger Mode	Free Run / Single Run / Continuous Wave / Squelch Run
		Trigger Level	TTL Level
		Marker Modes	Marker / Delta Marker / Peak Search / Marker to Center / Channel Power
4	Memory	Trace Storage / Setup Storage	Max 100 Waveforms and 100 States
5	Display	Type	Mono STN LCD
		Display Resolution	192 x 192 Pixels
		LCD Backlight	On/Off
6	Input	RF Input Connector	N-Type Female, 50 Ohms
		Maximum Input Power	Max +10 dBm, 5V rms
7	Frequency	Range	35 MHz to 2900 MHz
		RF Input Connector	BNC Type Female, 50 ohms(Standard)
8	General Specification	Operating Temperature	0°C to 40°C
		Humidity	35 RH to 85 RH
		Storage Temperature	10°C to 50°C
9	Power	Power Source	AA Type Ni-MH Rechargeable Battery X 6pcs
		Power Adaptor	SMPS Type AC Adaptor DC 12V Car-adaptor DC 12V
		Auto Power	OFF / 5 min / 10 min / 20 min / 30 min
10	Dimension & Weight	Size (WxHxD)	102 x 229 x 45 mm
		Weight	Aprx. 2.2 lbm / 700 grams (Except Antenna)
11	Other	Speaker	0.5W Into 8 ohms Speaker
		Antenna	Dipole Antenna (Receive Only)
		RS-232C Interface	9600 bps, 19200 bps, 38400 bps, 57600 bps, and 115200 bps 8-Pin MINI-DIN Connector
			Power + Interface