



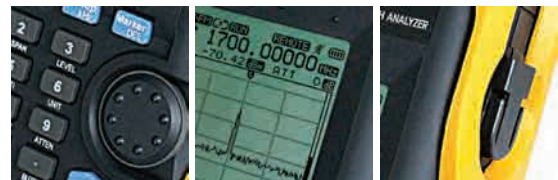
Analyzer

TEST & MEASURING INSTRUMENTS

2.0GHz/2.9GHz
RF Field Strength Analyzer

Protek 3201N / 3290N

Protek 3201N/3290N have been intended for field technicians who needs very simple operations to see if a certain level of RF signals exists on the frequency range from 100kHz to 2.0GHz (3201N)/ 2.9GHz (3290N). By measuring and demodulating W-FM/ N-FM/AM/SSB signals with built-in frequency counter, the usability has been enhanced. With this simple application, and affordability, Protek 3201N / 3290N have been one of best-selling Protek products in the market for the past years.



Features

Frequency Range (100kHz ~ 2.9GHz) / Protek 3290N Only

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

PLL Tuning System for Precise Frequency Tuning

Free Run, Single Run, Squelch Run Sweep Mode

100 Save and Load Function for Waveforms

Built-in Frequency Counter and Speaker

Backlight LCD

RS-232C Interface



Specification

		3290N	3201N	
1	Frequency	Range	100 kHz to 2900 MHz	100 kHz to 2000 MHz
		Accuracy	TXD : ± 3 PPM / Display : ± 1.5 PPM	
		Modulation Bandwidth	Wide FM : Apprx. 180 kHz(-6dB)	
			Narrow FM : Apprx 12.5 kHz(-6 dB) AM/SSB : Apprx 2.4 kHz(-6dB)	
		Step Range	6.25 kHz, 12.5 kHz	
	Frequency Selection Mode	Start, Stop, Center Span		
2	Amplitude	Measurement Range	-45 dBm to -110 dBm?NFM -45dBm to -100dBm/WFM, AM, SSB	
		Average Noise Level	Wide FM / AM / SSB : -100 dBm Min.	
			Narrow FM : -110dBm Min.	
		Amplitude Units	dBm, dBmV, dBuV	
		Reference Level Accuracy	Wide FM Typical ± 2.0 dB(20°C - 30°C)	
			Narrow FM Typical ± 2.0 dB(25°C)	
		Reference Level Range	0 dBm to -80 dBm	
Log Scale	0.2 dB/div Min. In 0.25 dB Span (5 Display Division)			
	Internal Atten	10 dB		
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	
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	35 MHz to 2000 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	