PTS PRECISION TEST SYSTEMS

FSG Series of Field Signal Generators

The FSG series of Field Signal Generators complement Precision Test's FSM range of Field Strength Meters. The FSG series Field Signal Generators are synthesized units that will generate a CW signal over the +20 dBm to -20 dBm amplitude range. The frequency is set by the keyboard and the amplitude can be changed in 10 dB steps, also by the keyboard. Over ten different models cover the 20 MHz to 3 GHz frequency range. The FSG, when used in conjunction with a FSM Field Strength Meter, form a complete measuring system that is ideal in propagation studies of building and local areas.

- Many models to choose from covering the 20 MHz to 3 GHz frequency range.
- CW Signal Output from +20 dBm to -20 dBm switchable in 10 dB steps (1 dB steps on the FSG960B and FSG2170)
- Frequency range and step size can be altered to customer's requirements upon special request.
- Handheld portable units operating on rechargeable batteries.
- Typically five hours use between charges.
- Compliment Precision Test's FSM range of Field Strength Meters. Ideal for propagation studies of buildings and local areas.

Applications

The FSG Field Signal Generator when used in conjunction with the FSM series of field strength meters are ideal for the following applications:

1. Propagation study or mapping of radio systems including analog and digital systems.
2. Measurement of antenna performance of a cellular phone or two way radio.
3. Direction finding using a directional antenna.

The output of the FSG Generator is a powerful +20 dBm, and can be altered in 10 dB steps from +20 dBm down to -20 dBm.

The FSG960B and FSG2170 can be set in 1 dB steps from +20 dBm to -20 dBm. The +20 dBm output level can be increased to 20W using the PA960B or PA2170 high power amplifiers.

Specifications

FSG100	20 MHz to 100 MHz in 12.5 kHz steps
FSG200	100 MHz to 200 MHz in 12.5 kHz steps
FSG300	200 MHz to 300 MHz in 12.5 kHz steps
FSG400	300 MHz to 400 MHz in 12.5 kHz steps
FSG500	400 MHz to 500 MHz in 12.5 kHz steps
FSG900	800 MHz to 900 MHz in 100 kHz steps
FSG960B	890 MHz to 960 MHz in 100 kHz steps
FSG1850	1750 MHz to 1850 MHz in 12.5 kHz steps
FSG2170	1710 MHz to 2170 MHz in 100 kHz steps
FSG2200	2100 MHz to 2200 MHz in 12.5 kHz steps
FSG2300	2200 MHz to 2300 MHz in 12.5 kHz steps
FSG2400	2300 MHz to 2400 MHz in 12.5 kHz steps
FSG2500	2400 MHz to 2500 MHz in 12.5 kHz steps
Frequency Accuracy	± 3 ppm @ 23ºC
Generate Level Range	+20 dBm to -20 dBm
Generate Level Resolution	10 dB steps (1 dB steps on FSG960B & FSG2170)
Generate Level Accuracy	± 3 dB
Spurs and Harmonics	-40 dBc or better
Signal Type	CW
Display Type	Liquid Crystal with back light
Battery Life	Five hours after full charge
Charger	115 VAC or 230 VAC ± 10%
Size	200 mm x 100 mm x 45 mm
Weight	0.62 kg
Operating Temperature Range	+10 ºC to + 40 ºC

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Specifications subject to change without notice (190207)