



RMS RF POWER SENSOR · RMSPS 8/20

The RMSPS is a RMS RF Power Sensor designed to detect the power levels of complex RF waveforms such as DTV, CDMA and multiple transmitter signals combined onto a single antenna line for example. The power sensor is normally connected to an in-line directional coupler that allows signal sampling in both the forward and reflected directions. The sensor comes in two versions. The Model RMSPS20 has a 20 dB RF attenuator at its input and is normally used for forward power measurements while the Model RMSPS8 has an 8 dB attenuator and is intended for reflected power measurements. Both sensors have a wide dynamic range and RF bandwidth. These sensors are a perfect complement for Davicom units.

Sensor's coefficients (averaged) for Davicom units:

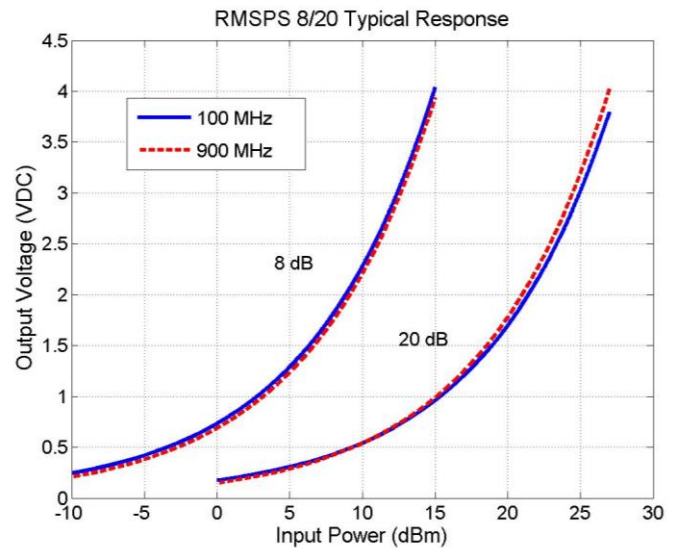
For readings in Volts RMS:

- RMSPS 20: A=0, B=1.275, C=0 and D=0
- RMSPS 8: A=0, B=0.315, C=0 and D=0

For readings in dBm:

- RMSPS 20: A=0, B=5.6, C=0 and D=20
- RMSPS 8: A=0, B=1.41, C=0 and D=20

ELECTRICAL SPECIFICATIONS		
	RMSPS8	RMSPS20
Frequency range	50-1000MHz	
Dynamic range	27 dB	
Max. RF Input	+16 dBm	+30 dBm
Absolute Maximum RF Input	+20 dBm	+30 dBm
Supply Voltage	5-15 VDC	
Max. Output Voltage	4 VDC @ +15 dBm	4 VDC @ +27 dBm
Connectors	RF Input: N female Output and Supply: Screw terminals	
Measurement accuracy	MAX ± 1 dB from -11 to +16 dBm	MAX ± 1 dB from -1 to +27 dBm



MECHANICAL SPECIFICATIONS	
Dimensions:	3¾ x 2 x 1 11/16 in.(W x D x H) 9.5 x 5.1 x 4.3 cm
Weight:	<9 oz (250g)

