

Bird[®] Terminating Power Sensor

5011, 5011-EF, 5015, 5015-EF

The Bird Terminating Power Sensor (TPS) is the easiest to use and most cost competitive terminating sensor on the market. This one port measurement device will provide True Average Power for forward power or reflected power if attached to a directional coupler or total power in the line if connected to a non-directional coupler. The TPS is a true plug and play solution with no front panel calibration required at any time.

The TPS is truly the most economical terminating sensor, half the price of our leading competitors. Quite a value considering the TPS is a highly accurate (5%) device with calibration traceable to the National Institute of Standards and Technology (NIST). Now available in a USB compatible version.



PROBLEMS

Tight budgets

Varying field tech skill levels

Need greater confidence in measurement

SOLUTIONS

- USB connectivity, no meter required
- Complimentary Virtual Power Meter (VPM2) software
- Sensor plugs and plays with 5000-XT meter.
- No field calibration required
- NIST traceable calibration

APPLICATIONS

WPS measures: Analog Cellular, Digital Cellular, 3G, 4G, Tetra, APCO/P25, Trunking, CDMA, TDMA, WCDMA, GSM, Transportation, Tactical Military, Radar, Avionics, Marine, LMR, Analog Broadcast, Digital Broadcast, GSM, GPRS, EDGE, UMTS, HSDPA, Bluetooth, Fire, GPS, NPSPAC, Paging, Project 25, Public Safety, Telematics, Utilities, WIMAX and WLAN.

Measurements performed: True average power.

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TPS SPECIFICATIONS

Frequency Range	5011	40 MHz - 4.0 GHz
	5011-EF	40 MHz - 12 GHz
	5015	40 MHz - 4.0 GHz
	5015-EF	40 MHz - 12 GHz
Power Range	-20.000 to +10.000 dBm (10.0010 µW to 10.000 mW)	
Impedance	50 Ohms	
Peak/Average Ratio	12 dB max.	
Accuracy	± 5% of Reading. When operating below 100 MHz and above 40 °C, add 1 %	
Insertion VSWR	5011	Typical 1.03 (36.6 dB return loss); maximum 1.20 (20.8 dB return loss)
	5011-EF	Typical 1.05 (32.3 dB return loss); maximum 1.25 (19.1 dB return loss)
	5015	Typical 1.03 (36.6 dB return loss); maximum 1.20 (20.8 dB return loss)
	5015-EF	Typical 1.05 (32.3 dB return loss); maximum 1.25 (19.1 dB return loss)
Warm Up Time	5 Minutes	
Connector(s)	Precision N Male	
Power Supply	From host instrument via cable connection	
Interface(s)	5011	DB9 (Proprietary Configuration)
	5011-EF	DB9 (Proprietary Configuration)
	5015	USB 1.1 Type B
	5015-EF	USB 1.1 Type B
Weight	.75 lb. maximum	
Size [inches (mm)]	6" (152 mm) long (including connector); 1.5" (38 mm) diameter	
Altitude	15,000 ft. (4570 m) operating	
Humidity, Max.	95% maximum (non-condensing)	
Safety	Complies with Directive 2006/95/EC for Low Voltage, per EN 61010-1:2001 Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory use.	
EMC	Complies with Directive 2004/108/EC Relating to Electromagnetic Compatibility, per EN 61326-1:2006 Electrical Equipment for Measurement, control, and Laboratory use.	
Operating Temps [°C(°F)]	-10 to 50 (14 to 122)	
Storage Temps [°C(°F)]	-40° to +80°C (-40° to +176°F)	
Mechanical Shock & Vibration	MIL-PRF-28800F class 3	

ACCESSORIES

8353A040-50	40 dB Attenuator, 50 W, 4 GHz
8353A030-10	30 dB Attenuator, 10 W, 4 GHz
8353A040-50-18	40 dB Attenuator, 50 W, 18 GHz
8353A030-10-18	30 dB Attenuator, 10 W, 18 GHz
4240-500-1	Adapter, N (F) to N (F)
4240-500-3	Adapter, right angle, N (F) to N (M)
4240-500-4	Adapter, N (F) to SMA (F)
4240-500-5	Adapter, N (F) to SMA (M)
PA-FNME	Adapter, N (F) to 7/16 DIN (M)
PA-FNFE	Adapter, N (F) to 7/16 DIN (F)
TC-MNFN-1.5-G	Test cable, 1.5 m., N (M)/N (F) conn.
TC-MNFN-1.5	Test cable, armored, PS, 1.5 m., N (F) to N (M)
TC-MNFN-3.0	Test cable, armored, PS, 3.0 m., N (F) to N (M)
5011A035-1	DC Block, N (F) to N (M)
5A2653-10L2	USB Locking Cable, 10'
5A2653-6L	USB Locking Cable, 6'
5A2653-10	USB Cable, 10'
5A2264-09-MF-10	DB9 Cable, 10'

COMPATIBLE DEVICES

5011, 5011-EF	5000-XT Site Analyzer Series Signal Hawk Series
5015, 5015-EF	5000-XT VPM2



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