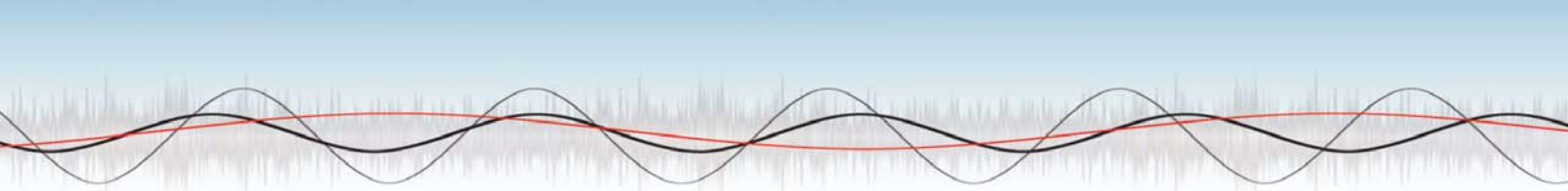




7020 Series Power Sensor



Bird's® new 7020 Power Sensor is an economical plug and play solution to your power measurement needs. The 7020 determines and reports Forward and Reflected True Average Power and VSWR over a wide frequency range of 25 MHz to 1.0 GHz or 350 MHz to 4.0 GHz. It also never requires field calibration, factory calibration suggested once per year, the sensors are traceable to National Institute of Standards and Technology (NIST).

PROBLEMS ▶ SOLUTIONS

Have analog, digital, and multi-carrier signals to measure

- ▶ Modulation independent measurements

Tight budget

- ▶ Inline device, no directional coupler required
- ▶ Complimentary Virtual Power Meter (VPM2) application

Downtime is unacceptable

- ▶ Monitor and perform maintenance for monitoring while DUT is in-service
- ▶ Measure forward and reflected power to troubleshoot system failures

Varying field tech skill levels

- ▶ Sensor plugs and plays with multiple display devices

Need confidence in measurement

- ▶ No field calibration required
- ▶ NIST traceable calibration



**Works with the
Bird RF Meter App!**

Free download from Google Play Store

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: Forward and Reflected

Calculations Performed: VSWR and True Average Power

7020 Series Power Sensor

SPECIFICATIONS

Frequency Range	7020-1-030301 25 MHz - 1.0 GHz 7020-1-010101 350 MHz - 4.0 GHz
Power Measurement Range	7020-1-030301 0.5 W to 500 W 7020-1-010101 0.15 W to 150 W
Measurement Accuracy	+/- (4% of reading + 0.05 W) (above 35 °C or below 15 °C add 3%)
Min, Forward Power for Reflected Measurement	5.0 W
Peak/Average Ratio, Max	12 dB
Insertion Loss, Max:	0.1 dB
Insertion VSWR	1.10 max
Impedance, Nominal	50 ohms
Response Time	100 ms
VSWR Range	1.15 to 99.9
RF Connector	N Female
Directivity, Min	28 dB
Recommended Calibration Interval	Annually
Power Supply	
Source	5Vdc from USB host
Current Draw	35 mA
Interface	
Protocol	USB 2.0
Connector	USB Type 'B' with "SeaLATCH" locking USB connector
Data Logging	with VPM3 Software



STANDARDS COMPLIANCE

CE European Standard EN 61326-1:2006 – Electronic Equipment for Measurement, Control and Laboratory Use – EMC Requirements in accordance with EMC Directive (2004/108/EC)

RoHS Compliant

Upgradability Firmware field-upgradable via the USB port

MECHANICAL AND ENVIRONMENTAL

Dimensions, Nominal 4.8" x 2.6" x 1.3"
(122mm x 66mm x 32mm)

Weight, nominal 1.0 lbs (0.45 kg)

Shock Mil-PRF-28800F Class 3

Vibration Mil-PRF-28800F Class 3

Operating Temperature -30 to +60 °C (-22 to +140 °F)

Storage Temperature -40 to +80 °C (-40 to +176 °F)

Humidity, Max 95% (non-condensing)

Altitude, Max 4,572 m (15,000ft)

STANDARD ACCESSORIES (INCLUDED)

5A2653-6L2 Sealatch USB Cable

VPM3 Virtual Power Meter

920-7020S Instruction Manual (Sensor)

920-VPM2 Instruction Manual (VPM2)

OPTIONAL ACCESSORIES (NOT INCLUDED)

PTA-MNMN Adapter

PTA-MNME Adapter

PTA-MNFE Adapter

COMPATIBLE DEVICES

SA-XT Series Site Analyzer

VPM3 Virtual Power Meter

5000-XT Digital Power Meter

Bird RF Meter Android App

 **Bird Technologies®**

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