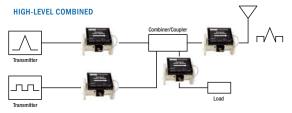
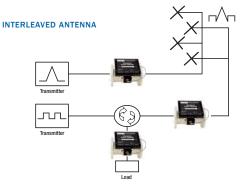
Specifications

BPME Series Broadcast Power Monitor

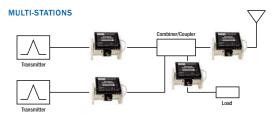
Measuring RF power and system match characteristics can be made with the BPME in any installation, regardless of the signal waveform, Complex waveforms such as 8-VSB and COFDM, used in IBOC, DAB and HDTV systems, as well as FM, AM and CW signals are accurately measured to ensure total power output requirements.



HD Radio is combined with the analog signal at the input to the antenna. Analog power coupled to the digital transmitter must be considered when specifying the BPME. The 20 dB dynamic range of the BPME will allow for easy high-level combined installations.



HD Radio and an analog signal can use interleaved antennas for separate but simultaneous transmission. High isolation reduces the mutual coupling however, analog power coupled to the digital transmitter must be considered when specifying the BPME. With 20 dB of dynamic range, the BPME is ready to handle this type of installation.



Multi-station operation will have a high peak-to-average power ratio, depending on the number of stations combined. Power meters not equipped to handle this high ratio will display accuracy errors up to 20%. With the ability to accurately read greater than 10 dB peak-to-average power, the BPME is your choice for multi-station applications.

BPME OPERATING CHARACTERISTICS

Frequency Range See chart Forward/Reflected Power Range Measurement Type Peak/Average Ratio

Display Options

Remote Interface

Coupler Directivity Accuracy

See chart In-line, True Average Power 10 dB maximum 28 dB minimum

+5% of reading VSWR. No/Low Forward Power High Forward Power SPDT relay contact

BPME PC Software, 3129 Ethernet 10BASE-T or 100BASF-TX (auto-sensing)

Ethernet Version 2.0/IEEE 802.3 Protocols: ARP, UDP/IP, TCP/IP, Telnet, ICMP, SNMP, DHCP, BOOTP, TFTP, Auto IP, and HTTP

Security: 256-bit encryption Serial RS-232 9600 haud no parity 8 data bits, 1 stop bit, no handshake

MODEL 3129 BROADCAST POWER METER

Operating Voltage 115/230 VAC @ 50/60 Hz Operating Power Less than 10 watts Dimensions

5.25" X 19" X 1.75" (133.35 mm X 483 mm X 44.5 mm)

Approximately 2 lbs. (0.85 kg) Wolght Supplied with 50 feet of cable to connect RS-232 and serial ports between 3129 and line section, and serial interface cable

LINE SECTION

Operating Temp. Storage Temp. Humidity Δltitude Calibration cycle

-10°C to +50°C (14°F to 122°F) -40°C to + 80°C (-40°F to 176°F) 95% ±5% max. (noncondensing) up to 10.000 feet (3.048 m)

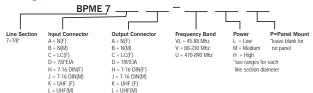
Annual

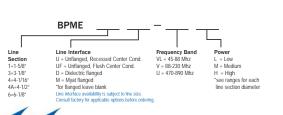
Consult our Applications Engineers at Bird Technologies Group today for assistance in choosing the BPME best suited for your installation.

FREQUENCY AND FORWARD/REFLECTED POWER RANGES

Line Size	Power Designator	Forward Power Range	Power Designator	Forward Power Range
7/8"	Low	50 - 500 W	Low	25 - 250 W
	Medium	500 W - 2 kW	Medium	250 W - 1 kW
	High	2 – 5 kW	High	1 - 2.5 kW
1 5/8*	Low	200 W - 2 kW	Low	50 - 500 W
	Medium	2 – 8 kW	Medium	500 W - 2 kW
	High	8 – 20 kW	High	2 - 5 kW
3 1/8*	Low	500 W - 5 kW	Low	250 W - 2.5 kW
	Medium	5 - 20 kW	Medium	2.5 - 10 kW
	High	20 - 50 kW	High	10 - 25 kW
4 1/16"	Low	1 – 10 kW	Low	400 W - 4 kW
	Medium	10 – 40 kW	Medium	4 - 15 kW
	High	40 - 100 kW	High	15 - 40 kW
6 1/8"	Low	2 - 20 kW	Low	800 W - 8 kW
	Medium	20 - 80 kW	Medium	8 - 30 kW
	High	80 – 200 kW	High	30 - 75 kW

Ordering Information







303 Aurora Road, Cleveland, OH 44139-2794 Tel:1-866-695-4569 Fax: 1-866-546-4306 Email: sales@bird-electronic.com site: http://www.bird-electronic.com

513-BPMEBR-11142006

BPME Series

Broadcast Power Monitor

Broadcast Power Monitors for your digital & analog **applications**

TECHNOLOGIES GROUP



RF Measurement and Management in Your World





Bird Technologies Group is proud to introduce our new improved

Broadcast Power Monitor-Enhanced (BPME) to the Bird Broadcast Product Family.

This innovative product offers users more options in how they measure, monitor and protect their RF Broadcast transmission systems while providing dependable performance and accuracy.

While the BPME provides the usual power and VSWR monitoring, it is much more than just a 'comfort' meter. One of the chief factors that sets BPME apart is the depth of its functionality. From remote monitoring via a user-friendly web interface to never-before-available data logging capabilities, the BPME gives users an unmatched range of functions designed to make their jobs easier, while protecting the health of their investment.

In addition, the new RF test port enables users to verify spectral compliance for applications such as IBOC or HDTV at the point in the transmission line where it matters most!

The enhanced functionality of BPME puts complete analog and digital broadcast monitoring at the user's fingertips through user-friendly, around-the-clock, remote access from any web-enabled device. This 24/7 access ensures that problems are detected and dealt with easily and promptly-before they escalate into more costly situations.

Features/Benefits:

- Integral Power Monitor System
 Integration of forward and reflected elements into the RF Detection/Control Circuit yields added stability and greater dynamic range
- Frequency/Channel Field Configurable
 Provides channel flexibility when needed in the field
- Ethernet & RS-232 Enabled
 Future-ready remote monitoring, control & instant alarm alert
- Integral RF Test Port
 Enables mask compliance testing, as well as monitoring of spectrum, modulation, frequency & RF envelope performance
- Data Logging Capabilities
 System trends and anomalies can be detected before failures

Product Highlights

Re-engineered to integrate the forward & reflected elements into the RF Detection/Control circuit to yield added stability and greater dynamic range.

DB-15 connector for power input to BPME. Additionally, this provides analog alarm and relay data output to the 3129 Display Panel or any PC equipped with PC Tool Software.

sizes. Consult factory for specific configurations to meet your requirement.

High quality, low loss, handformable microwave cable ensures measurement accuracy.

Silver plated, copper line sections

available in standard EIA line

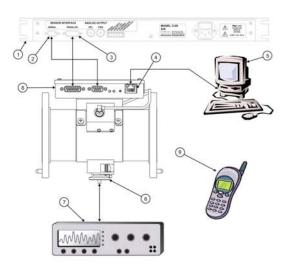
DB-9 connector, RS-232 output to 3129 Display Panel or any PC equipped with PC Tool Software.
Alarm upon zero power, low power, high power or VSWR anomalies as per customer set threshold.

Integrated RF Test Port for use with optional Sampling Elements. This is critical for applications where spectral compliance must be verified. Additionally, this port can be used to monitor spectrum, modulation, frequency and RF envelope performance.

RJ-45 connector, Ethernet enabled. Remote interface to the BPME via any PC via the web.

Application Diagram

- 1. 3129 DIGITAL DISPLAY
- 2. RS-232 COMMUNICATION PORT, DB-9
- 3. POWER/ALARM CONNECTOR, DB15
- 4. ETHERNET CONNECTOR (FOR NETWORK OR LOCAL PC)
- 5. COMPUTER (NOT ON A NETWORK)
- 6. MONITOR PORT
- MONITOR DEVICE (SPECTRUM ANALYZER, MODULATION MONITOR, OSCILLOSCOPE)
- 8. DETECTION/CONTROL MODULE
- 9. CELL PHONE OR PDA-INSTANT MESSAGE NOTIFICATION OF ALARM



BPME Series Broadcast Power Monitors

Complete Control of RF Broadcast Transmission Systems.