Bird Technologies®



Multi-Channel Power Meter

3141Series

The Bird® 3141 Multi-Channel Power Meter is an instrument intended for the continuous monitoring of communications base station equipment of all types. The instrument and sensors are used together to provide information as to the input power, composite output power, and antenna VSWR for base station radios, as well as their associated transmission line and antenna systems. The system provides local display of all channel parameters, as well as a built-in web server in order to provide remote connectivity to the system for monitoring purposes.

PRELIMINARY

POWER MONITOR SYSTEM:

- The Bird 3141 is able to monitor up to eight measurement channels simultaneously. Various displays of the collected data from the sensors are possible, including graphical display of channel power characteristics.
- Two types of RF power sensors are available for the system. The Model 4044 Power Sensor is a non-directional sensor that is intended for use at the input to each channel of the transmit combiner. This sensor is capable of measuring the output power of either analog or digitally modulated transmitters, at power levels up to 100 watts. The Model 4044 is accurate to within +/-5% of reading.
- The second power sensor is the model 4045 directional power sensor that provides both forward and reflected power information with +/-5% of reading accuracy, at composite power levels up to 500 watts. This sensor is intended for use at the transmit combiner output, in order to provide both composite output power, as well as antenna VSWR information.
- Any of the above sensors may be connected to any port on the Bird 3141 Channel Monitor system. The system will automatically determine the power range of the sensor connected.
- All channel power information, as well as composite power and antenna system VSWR is available remotely using the built-in web server capability of the model 3141. In addition, alarm conditions such as high antenna VSWR, or low channel power are also available remotely.

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