

## WHY THE MODEL 5000 IS THE PERFECT MEASUREMENT SOLUTION FOR DIGITALLY MODULATED RF.

**T**oday's rapid growth in wireless communication and industrial RF applications has created the need for an RF power meter that is portable, rugged, cost effective, easy to use, and able to handle a broad range of analog and digital signals.

### Designed to Go Anywhere.

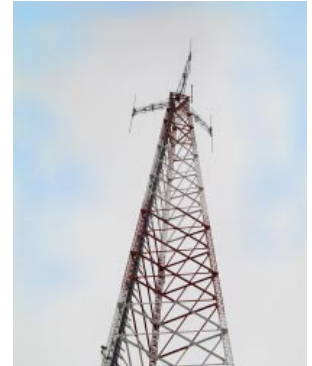
Compact dimensions, the ability to meet MIL-T-28800D Class 3 mechanical shock and vibration requirements, and a total weight under three pounds make the Model 5000 ideal for wireless and broadcast

transmitter sites alike. Rechargeable NiMH batteries operate the unit for up to 100 hours per charge, charge after charge, without the gradual loss of capacity typical of ordinary NiCad batteries.

### Field-Proven, Digital-Ready Technology.

Conventional quasi-average-reading RF power meters are perfect for measuring the average power of unmodulated (CW) signals, or simple modulation formats such as FM. Digital modulation (PCS, DAB, DTV, HDTV) creates waveforms which drastically differ from CW and FM. With digital RF, amplitude, peak-to-average ratio, and frequency can all vary at any instant, outstripping the conventional meter's sensor capabilities and calibration parameters. Surprisingly, some technicians still attempt to measure digital RF power using yesterday's technology, with unpredictable results.

Bird has mated its field-proven APM technology with the industry's first hand-held digital-display RF power meter. The Model 5000 measures digitally modulated RF with an accuracy of  $\pm 5\%$  of reading, predictably, *every time*.

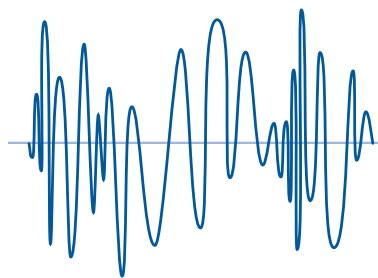


### More Rugged and Portable than Thermal Wattmeters, at a Fraction of the Cost.

Wireless technicians frequently need to measure power in digital communication systems. Some have resorted to thermal watt meters, but these devices are heavy, AC-powered, and more suited to the test bench. Further, thermal wattmeters are terminating devices which require complex, potentially accuracy-robbing external couplers and attenuators to measure in-line power in actively transmitting systems. Thermal sensors are expensive, and prone to abrupt burn-out from overload.

The Model 5000 is a model of simplicity for digital wireless applications. It requires no couplers or attenuators. Its dual digital readout quickly shows

both forward and reflected power with an accuracy that rivals equivalent thermal setups. The price of a complete Model 5000 is comparable to that of *just one* thermal power sensor.



*Digitally modulated RF waveforms are significantly different from CW, AM or FM.*