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Item # TPM Series, Transmitter Power Monitor**Transmitter Power Monitor**

The Transmitter Power Monitor (TPM) is the latest broadcast solution from Bird.

Calibrated coupling ports and accurate power measurement combined in the same unit passes savings of money and space on to you. Using state of the art techniques, the TPM is the first in-situ power solution that can be calibrated in-line and on site. This unprecedented characteristic helps minimize downtime and optimize on-air time. In addition, a simplified interface allows for a high level of customization and integration that any system could appreciate.

Low Cost World Class in-situ power measurement standard solution designed for operation inside the transmitter. Can be calibrated during operation, while ON-AIR. Never any need to remove from service which equates to no downtime. Traceable to National Institute of Standards and Technology (NIST).

- DB9 output provides a linear DC voltage output from 0 to 4 volts allowing for a wide variety of interface options
- In-line calibration capability allows for greater accuracy in a single application (with an accurate power reference)
- Integrated non-directional coupler allows for spectral analysis of the signal in minimal space requirements
- Accurately measures true average power for digitally modulated systems
- 7/8", 1 5/8", and 3 1/8", 50 ohm lines available for FM, VHF, and UHF broadcast frequencies

Contact factory for special requirements (i.e. power, frequency and line size)

SPECIFICATIONS

Frequency Range (MHz)	L = 54-88 MHz F = 88-108 MHz H = 174-216 MHz U = 470-806 MHz
Forward Power Range	See Power Ratings
Reflected Power Range	10% of Forward Power Range
Measurement Type	In-line, True Average Power
Peak/Average Ratio	10 dB maximum
Coupler Directivity	26 dB min.
Accuracy	± 5% of reading
Dynamic Power Range	16 dB
Outputs	DB 9 Voltage I/O

Display Options	3140A4 (4 Channel) 3140A8 (8 Channel)
Operating Temperature [°C (°F)]	-10° to +50° C (14° to 122° F)
Storage Temperature [°C (°F)]	-40° to +80° C (-40° to 176° F)
Humidity, Max.	95% ۯ% max. (noncondensing)
Altitude	Up to 10,000 feet (3,048 m)
Weight [lbs (kg)]	TPM7 = 3.5 lbs TPM1 = 5.5 lbs TPM3 = 8.0 lbs
Calibration Cycle	Annual Standard calibration cycle of 1 year for re-verification, but can be re-calibrated by the customer with an accurate power reference See Applications Brochure