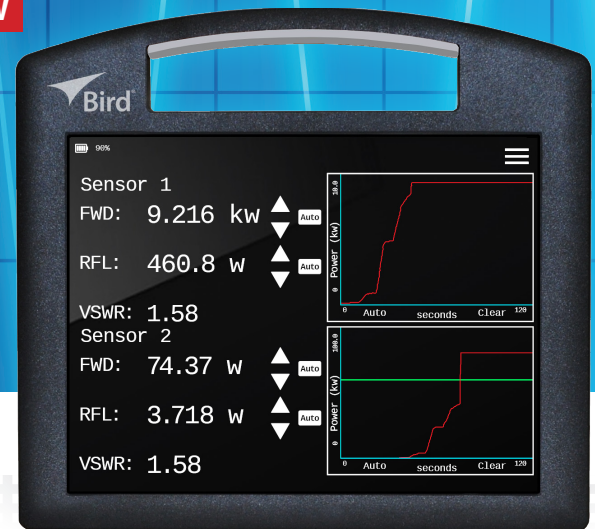


POWER METER Multifunction

NEW

MODEL 4421A



Dual Sensor Display

The Model 4421A is a Multifunction Power Meter to be used in combination with Bird's Precision Power Sensors to display RF power readings with up to 0.5% accuracy. This intuitive display unit clearly identifies the Forward and Reflected power measurements within the RF path. In addition, return loss readings can also shown to provide additional insight into the RF system being monitored.

The 4421A is the next generation replacement for the industry standard Model 4421. Building upon the original model's high level of accuracy and its ease of use, the new 4421A enhances the meter's functionality by utilizing a smaller/lighter design, and by providing the ability to have dual sensor inputs.



MODEL 4421A
Side Views

- *4421A-X0-XX-X Meters have (2) 402x connectors
- 4421A-x2-xx-x Meters have (1) 402x connector and (2) 702x/703x connectors

PRODUCT FEATURES

- Compatible with the full line of Bird's 402x, 702x and 703x-Series power sensors.
- Automatic sensor detection for seamless integration.
- Large 9.7 in full color LCD touchscreen display for easy readability.
- Dual sensor option expands measurement capabilities.
- Compact, lightweight and portable design enhances functionality.

FUNCTIONS

- Forward Power in W or dBm
- Reflected Power in W or dBm
- Return Loss in VSWR, RL, or Reflection Coefficient

MULTIFUNCTION POWER METER

MODEL 4421A

Specifications

MEASUREMENT

Compatible Bird Sensors	4021, 4022, 4023, 4024, 4025, 4027 Series, 4028 Series, 702x Series, 703x Series
Power Range	Sensor dependent
Frequency Range	Sensor dependent
Sensor Channels	Model dependent, 1 or 2
VSWR Display	1.0 to 199.9
Return Loss Display	0 to 40 dB

SYSTEM

Display	9.7 in TFT full color LCD with touch screen
AC Power	100-240 VAC, 50/60 Hz, 30 W
Fuse rating	1A, IEC (5 x 20 mm), time-delay
Battery Type	Internal, rechargeable
Battery Life	Up to 7 hours
Battery Charger	Built-in. Approximately 4 hours to fully recharge.

PRODUCT SELECTION GUIDE

Model Number	# of Sensors	# of Sensor Channels	Interfaces
4421A-10-00-0	Single 402x Sensor	1	None
4421A-20-00-0	Dual 402x Sensors	2	None
4421A-10-11-0	Single 402x Sensor	1	RS-232, LAN
4421A-20-11-0	Dual 402x Sensors	2	RS-232, LAN
4421A-12-11-1	Single 402x Sensor **Dual 702x/703x Sensors	2	RS-232, LAN

** 702x/703x Sensors are currently supported for Average Power measurements. Pulse Power parameter measurements will be added with a free, in-field installable software update by the end of 2022.

ENVIRONMENTAL

Humidity	95% max, noncondensing
Altitude	4,600 m max
Operating Temperature	0 °C to 40 °C
Storage Temperature¹	-10 °C to 50 °C, < 1 month -10 °C to 35 °C, < 6 months -10 °C to 25 °C, > 6 months

PHYSICAL

Size	10.6 in x 9.7 in x 3.6 in (269 mm x 246 mm x 91 mm)
Weight	Less than 5 lb

CERTIFICATIONS

CE	CE Compliant
Shock and Vibration	MIL-PRF-28800F Class 4 Compliant

¹ -Storage temperature limited by battery specification. Storage outside this range may degrade battery performance. For best performance, a full recharge is recommended every 6 months or if stored below 0 °C.

birdrf.com/products

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