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BIRD 43 Thruline®



Measures both forward and reflected CW power in 50Ω coaxial transmission lines. Low VSWR and insertion loss, ± 5% of full scale accuracy. Plug-in elements provide a wide choice of frequency ranges from 2 to 1000MHz and power levels from 1W to 10KW. Select one or more elements to suit your requirements.

Comes with your choice of SO-239 or Type-N connectors. Other Quick Change connectors available (see page 165).

6 7/8"h x 5 1/8"w x 3 5/8"d, 4.5 lbs.

Part #	Description	Price Ea.
BIRD MODEL 43-UHF	with SO-239 UHF Female Conn	\$348.00
BIRD MODEL 43-N	with Type N Female Conn.	348.00
BIRD MODEL 43P-N	CW/PEAK WATTMETER. N Conn.	573.00
BIRD MODEL 43P-UHF	CW/PEAK with SO-239 UHF	573.00

* Quick Change Connectors can be found on page 165, Standard 7/8" Elements on page 162-163 and Peak Reading Elements on page 163.

Ask about our reconditioned Bird Wattmeters.

81000-A & 83000-A Series Wattmeters



Coaxial Dynamics Model 81000-A wattmeter can measure RF Power in 50 Ohm coaxial cable and transmission lines, and accept plug-in elements in the range of 100 mW to 10 kW full scale, and from 0.45 to 2300 MHz.

The 81000-A is easy to use. Simply connect the Wattmeter between the transmitter and antenna or dummy load, plug in the appropriate measuring element and select forward or reflected direction. The RF power is directly displayed on the 4-1/2" triple scale meter.

Versatile and strong, the Model 81000-A can be used with accessory cables up to 200 feet from the meter and is protected by a rugged, virtually indestructible shockproof housing. For added convenience, two sockets for storage of additional elements are located on the back of the unit.

The use of a rugged shock mounted meter with a mirror-backed scale, along with superior taut band technology, provides reliable and accurate readings, and also that satisfies both the US Navy and Canadian standards for bounce and vibration. This is your assurance of complete accuracy.

The 83000-A is the same as the 81000-A with Peak Kit installed.

Specifications

Model:	81000-A
Impedance:	50 ohms
Power Range:	100mW to 10kW
RF Connectors:	Type-N female standard*
Frequency Range:	0.45 MHz to 2300 MHz
Nominal Size:	4" D x 5" W x 7.3"H
VSWR:	with N Connectors 1.05:1 max.
Weight:	3.6 lbs.
Accuracy:	±5% of full scale
Case Finish:	Blue Polyurethane Enamel
*other Quick Match Connectors available	



Shock mounted "taut band" Meter

- 4 1/2" mirrored Scale
- Quick Match Connectors
- Internal Line Section
- Gold Plated Plug-In Elements
- Two Year Limited Warranty

Part #	Description	Price Each
CD81000AN	with Type N Connectors	\$289.00
CD81000AUHF	with SO-239 UHF Connectors	289.00
CD83000AN	with P.E.P. Kit and Type N Connectors	413.00
CD83000AUHF	with P.E.P. Kit and UHF Connectors	413.00
CD83050	P.E.P. Kit for 81000-A	130.00
CD88950A	Replacement Meter Movement for 81000-A	135.00
CD88800	Carrying Case for 81000-A	75.00

Looking for a Spectacular Deal?

Check out the Used Equipment section on our website at:

www.rfparts.com

You never know what you might find !



- Wattmeters & Kits
- Carry Cases
- Elements
- Directional Couplers
- and more!*



81021 Dual Socket Wattmeter



The new Model 81021 Average Reading Dual Socket Wattmeter allows you to measure both Forward and Reflected RF power with the flip of a switch. The Model 81021 uses standard Elements to accurately detect average RF power from 100mw to 10 kW over a frequency range of 0.45 MHz to 2.3 GHz.

Complete with an internal dual socket 7/8" Line Section and Quick Match RF connectors, Model 81021 offers the speed and reliability you expect from Coaxial Dynamics. A convenient front panel switch gives the user the ability to display Forward or Reflected power on the analog meter.

The Model 81021 is easy to use. No additional black boxes or delicate remote sensors are needed. Simply connect the Wattmeter in-line between the RF source and the Antenna or Load, insert the appropriate Elements and select either the Forward or Reflected switch position. The RF power is visually identified directly on the large 4 1/2" mirrored scale.

Versatile and strong, the Model 81021 uses a heavy gauge metal case to protect the Wattmeter from impact shock and a leather strap makes for safe and comfortable handling. For added convenience, two sockets for storage of additional elements are located on the back of the unit.

Our use of a rugged shock mounted meter with a mirrored-backed scale along with superior taut band technology provides reliable and accurate readings, plus the integrity that satisfies both the US Navy and Canadian standards for bounce and vibration. This is your assurance of complete accuracy.

Specifications

Model:	81021
Impedance:	50 ohms
Power Range:	100mW to 10kW
RF Connectors:	Type-N female standard*
Frequency Range:	0.45 MHz to 2.3 GHz
Nominal Size:	4" D x 5" W x 7.25"H
VSWR:	with N Connectors 1.05:1 max.
Weight:	3.8 lbs.
Accuracy:	±5% of full scale
Case Finish:	Textured Nitro-Blue Paint
*other Quick Match Connectors available	

Part #	Description	Price Each
CD81021N	with Type N Connectors	\$385.00
CD81021UHF	with SO-239 UHF Connectors	385.00



- Shock Mounted "Taut Band" Meter
- Large 4-1/2" Mirrored Scale
- Internal Dual Socket 7/8" Line Section
- Switch for Forward or Reflected Power
- Quick Match Connectors
- Uses Standard Gold Plated Plug-In Elements
- Two Year Limited Warranty

83060 Peak Reading Wattmeter



Similar in appearance and operation to our standard Model 81010 Wattmeter, the Model 83060 converts from Average Reading to Peak Reading with the flip of a switch, by inserting a peak reading amplifier between the element and the meter.

The Model 83060 is designed to measure RF power in amplitude modulated systems such as television, telemetry, radar and peak envelope power (PEP) such as SSB and AM signals.

The use of a rugged shock mounted meter with a mirror-backed scale, along with superior taut band technology, provides reliable and accurate readings, and also that satisfies both the US Navy and Canadian standards for bounce and vibration. This is your assurance of complete accuracy.

Your confidence in the quality and dependability of the Model 83060 Wattmeter is assured with the Coaxial Dynamics Two Year Limited Warranty.

Specifications

Model:	83060
Power Ranges:	15, 50, 150, 500 and 1500 watts full scale (500 watts maximum from 800 to 1000 MHz)
Frequency Range:	25 MHz to 1000 MHz
VSWR:	1.08 max. from 25 to 512 MHz (with UHF female connectors) 1.12 max. from 512 to 1000 MHz (with UHF female connectors)
Accuracy:	(Average Mode) 25 to 100 MHz, ±7% of full scale using corrections chart 100 to 512 MHz, ±6% of full scale, no correction required 512 to 1000 MHz, ±7% of full scale, no correction required (Peak Mode) 25 to 100 MHz, ±9% of full scale using corrections chart 100 to 512 MHz, ±8% of full scale, no correction required 512 to 1000 MHz, ±9% of full scale, no correction required
Insertion Loss:	0.10 dB max. from 25 to 512 MHz (with UHF female connectors) 0.15 dB max. from 512 to 1000 MHz (with UHF female connectors)
Element:	Non-removable Broadband (25 to 1000 MHz, 1500 watts max.)



- Non-removable broadband Element
- Shock mounted "taut band" Meter
- 4 1/2" mirrored Scale
- Quick Match Connectors
- Internal Line Section
- Supplied with Type-N female connector
- Gold Plated Plug-In Elements
- Two Year Limited Warranty

Part #: CD83060 · Price Ea. \$723.00

BIRD Model 4304A



Covers all power ranges required for measurement of all two-way communications systems.

25-1000 MHz, with one broadband, locked-in-place element calibrated to the instrument. 5-500 watt, selectable scales: 5, 15, 50, 150, 500w (150w max, 800-1000 MHz).

Similar to Model 43, with UHF connectors. Other connectors available using Bird Quick Change or Unidapt system.

RF Parts Special: \$647.00



BIRD Model 4308



Dedicated UHF/Cellular/Trunking Wattmeter

440-960 MHz, two-way / trunking / cellular. 1.5-50 watts, selectable scales 1.5, 5, 15, 50 watts included.

Connectors: TNC female. Other connectors available using Bird Quick Change or Unidapt system.

RF Parts Special: \$781.00



Wattmeters by Diamond Antenna



The SX20C, SX40C and SX240C are compact SWR-power meters, featuring cross needle design for measuring SWR and output power simultaneously.

Compact size makes them very useful for testing mobile as well as base station installation. The SX240C also features a 3KW Power Range for HF use.



SX20C Specifications:

Freq. Range:
3.5-30 / 50-54 / 130-150 MHz

Power Ranges:
30W & 300W

Size:
3 5/16" W x 3 5/16" H x 3 3/4" D

Model: SX20C
Price: \$89.95 ea.

SX40C Specifications:

Freq. Range:
144 - 470 MHz

Power Ranges:
30W & 300W

Size:
3 5/16" W x 3 5/16" H x 3 3/4" D

Model: SX40C
Price: \$82.95 ea.



SX240C Specifications:

Freq. Range:
1.8-54 / 140-470 MHz (220 MHz with correction factor)
Power Ranges: 30W, 300W and 3 KW (HF only)

Model: SX240C · Price: \$349.95 ea.

7601 Field Strength Meter



Coaxial Dynamics Model 7601

Relative Field Strength Meter is used for measuring the relative strengths of radiating fields of patterns from a transmitting antenna system, making relative RF power measurements, or peaking and adjusting fixed or portable transceivers and antennas.

The Model 7601 is usable over a frequency range of 1 to 3000 MHz with superior performance characteristics and with greater sensitivity. A one watt CW source from a unity gain antenna at 150 MHz will typically cause full scale deflection at a distance of 10 feet with the gain control set at maximum. The large easy to read meter is plainly visible from many feet away.

The detachable antenna feature allows the user to select from two available antennas. The instrument is normally supplied with a Rubber Duck style antenna. An optional telescoping antenna (see options below) with a range of 4 to 19 inches is also available for even greater sensitivity.

Your confidence in the quality and dependability of the Model 7601 Relative Field Strength Meter is assured with the Coaxial Dynamics Two Year Limited Warranty.

Note: Model 7601 can also be connected directly to an existing base or mobile antenna.

Specifications

Model:	7601
Frequency Range:	1 to 3000 MHz
Typical Sensitivity:	1 Watt CW source from a unity gain antenna at 150 MHz will cause full scale deflection at 10-ft with the gain control set at maximum.
Battery:	One
Dimensions:	3.13" x 5" x 2.13"
Weight:	8 oz. (without Antenna attached)
Case Finish:	Textured Blue and Tan Polyurethane Enamel

Part #: CD7601 · Price: \$219.00



- Superior Sensitivity
- Broadband Operation
- Adjustable Gain Control
- Internal Battery Test Circuit
- Detachable Antenna
- Two Year Limited Warranty

BIRD 4041 Field Strength Meter



The Model 4041 Meter is a self-contained, compact instrument that performs exactly the same functions as the 4030 element in a Bird 43 meter.



Specifications:

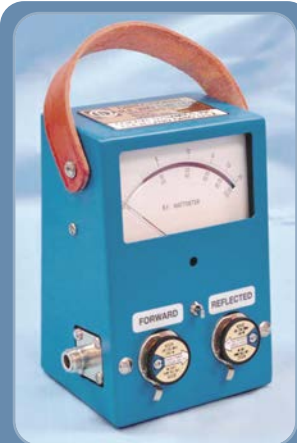
Model:	4041
Frequency Range:	1 to 10
Dynamic Range:	30 dB min.
Typical Sensitivity:	Full-scale deflection at 8 ft. (2 1/2 m) from a 1 W source broadcasting at 150 MHz through a quarter wave antenna.
Battery Life:	200 hours min.
Battery Type:	One 9V Alkaline "transistor" battery (NEDA #1604A)
Ambient Temperature Range:	0°C to +50°C

Nominal Size (w/out antenna): 4 3/8" L x 2 1/2" W x 2 1/4" D

Weight (includes batteries): 10 oz.

Part #: 4041 · Price: \$345.00 ea.

81041 Dual Socket Directional Wattmeter



- Forward & Reflected Power in W & dBm
- Auto Calculation of SWR & Return Loss
- Internal Dual Socket 7/8" Line Section
- Switch for Forward or Reflected Power
- Quick Match (QM) Connectors
- Uses Standard 7/8" Elements
- Two Year Limited Warranty

Part #: 81041N
Price: \$579.00 ea.

* Quick Change (QM) Connectors are listed on page 165, and Standard Elements on page 163.

The Model 81041 is a portable, self-contained RF Wattmeter that features a studio-quality analog meter and USB interface. Numeric, analog meter, and bar graph data are simultaneously displayed on a PC's monitor. The functions indicated are Forward and Reflected Power, both in Watts and dBm, plus an automatic calculation of SWR and Return Loss. The internal dual socket line section and forward/reflected switch gives the user the ability to display either forward or reflected on the analog meter, while both are displayed on the PC.

Our use of a rugged shock mounted meter with a mirror-backed scale along with superior taut band technology, provides reliable and accurate readings of either forward or reflected power on the meter.

The Model 81041 uses standard elements* to detect average RF power from 100 mW to 10 kW over a Frequency Range of 2 MHz to 2.3 GHz.

Software and a detachable six foot USB cable are included for a simple installation on any PC using Windows Vista, 2000, XP or NT. No additional cables, AC or DC power adapters, batteries or custom remote sensors are required. Type N female connectors are standard with over 20 interchangeable QM connectors* available such as 7/16, SMA, UHF, BNC and TNC types in male and female genders.

Specifications

Power Range	100mW to 10kW
Frequency Range	2 MHz to 2.3 GHz
VSWR	1.05:1 Max (w/ N connector)
Accuracy	+/- 5% of full scale
Impedance	50 Ohms
RF Connectors	N Standard
Nominal Size	7.25" H x 5" W x 4" D
Weight	4.3 lbs (2kg)
Case Finish	Textured Nitro Blue Paint

81030 Directional Wattmeter



RF Power Meter Features

Microcontroller & LCD Display

The model 81030 portable RF Power Meter features a large LCD Display for faster and better readability at a distance or any viewing angle compared to analog (needle) indicators.

Forward or reflected RF Power from 100 mW to 10 kW (+20 dBm to +70 dBm) and 2 to 2300 MHz are possible with precision, plug-in elements that are standard in the marketplace. RF Power is displayed in either Watts or dBm and accuracy is +/- 5% of full scale. Internal rechargeable batteries are included along with a customer-specified 110 or 220 VAC adapter/charger at no additional cost.

N type female connectors are standard with up to 20 interchangeable QM connectors* available such as 7/16, SMA, BNC and TNC.

Specifications

Power Range	100mW to 10kW
Frequency Range	2 to 2300 MHz
VSWR	1.05:1 Max (w/ N connector)
Accuracy	+/- 5% of full scale
Impedance	50 Ohms
RF Connectors	N Standard (other QM Types available)
Nominal Size	7.25" H x 5" W x 4" D
Weight	4.3 lbs (2kg)
Case Finish	Textured Nitro Blue Paint

Part #: 81030-110 (110VAC) · Price: \$439.00 ea.
Part #: 81030-220 (220VAC) · Price: \$439.00 ea.

* Quick Change (QM) Connectors are listed on page 165, and Standard Elements on page 163.



- Advanced 3/4" LCD Display
- Watt or dBm Readout
- Internal 7/8" Line Section
- Quick Match (QM) Connectors
- Uses Standard 7/8" Elements
- Two Year Limited Warranty

BIRD Model 4391A

RF Directional Wattmeter

The ruggedly built, multifunction Model 4391A RF Power Analyst features a digital display, microprocessor-based operation, and simplified, push-button control. This wattmeter is well suited to C3, telemetry, two-way communications, avionics and radar, as well as standard radio and television applications.



Ask about reconditioned 4390 & 4391 meters.

- Frequency: 0.45 to 2700 MHz.
- Power: 100 mW to 10 kW with 20% over-range.
- Reads forward and reflected CW or FM power in watts or dBm, Peak Envelope Power or SSB/DSB and symmetrical AM in watts, and peak power for pulses as narrow as 0.8 ms.
- Calculates SWR, return loss in dB and % modulation.
- Stores peak and null readings to facilitate adjustment of maximum and minimum signal levels.
- Shock-resistant keyboard and range switches. RFI protection.
- Built-in international power supply/charger.

Specifications:

Model:	4391A
Power Range:	100mW to 10 kW using Bird Plug-in Elements
Frequency Range:	450 kHz to 2.7 GHz
Insertion VSWR:	with N Connectors 1.05 max to 1000 MHz
Accuracy:	Power Readings: ±5% of full scale CW ±8% PEP; VSWR: ±10% of reading % Modulation: (CW power 1/3 or more of full scale) ±5% (0-90%) ±10% (90-100%)
Usable Over-range:	to 120% of scale (CW, PEP, SWR and Return Loss)
Sampling Rate:	2 to 3 readings per second
Display:	3 1/2 digit, 0.3" LED strobed
Modulation Frequency:	25 to 10,000 Hz (Audio)
Pulse Parameters:	(min.) Pulse width 0.8 ms (100-2700 MHz), 1.5 ms (26-99 MHz) and 15 ms (2-25 MHz); Repetition Rate 25 PPS, and Duty Factor 1 x 10-4 min.
Return Loss:	±0.3 dB to corresponding SWR value
Battery Life:	± 8 hours (rechargeable)
AC Power:	100-130/200-260 V, 50/60 Hz, 6 W
Connectors:	QC Type (Female N normally supplied)
Nominal Size:	(includes connectors) 9 9/16" L x 5 7/32" W x 4 5/16" H
Weight:	5 3/4 lbs.

Part #: 4391A · RF Parts Special: \$1760.00



WATTMETER ACCESSORIES

Bird Variable RF Signal Sampler



Bird Models 4273 (1.5 to 35 MHz, 5 kW max.) and Model 4275 (20 to 1000 MHz, 1 kW max.) are "stand alone", wide-range, THRULINE® RF coupling probes for spectrum analysis, RF signal observation on a scope, or frequency counting and control. They feature very low VSWR throughout a broad frequency and attenuation range. Insertion loss is a negligible 0.1 dB. Both Models produce an unrectified sample at the BNC port that is adjustable. Once adjusted, the setting can be locked in place. The main power line connectors are Bird QC type.



Specifications for both Models

Impedance: 50 ohms nominal
Coupling: Adjustable as shown within ± 3 dB
Ambient Temp Range: -40°C to $+45^{\circ}\text{C}$
Connectors: QC type as specified
Nominal Size: $2\frac{51}{64}$ " L x $2\frac{7}{8}$ " W x $1\frac{1}{4}$ " D
Weight: 10 oz.

4273 Specifications

Power Rating: 5 kW max
Frequency Range: 1.5 - 35 MHz
Insertion VSWR: with N connectors ~ 1.07 max.

Part #	QC Connectors	Price Ea.
4273	No Connectors*	\$242.00
4273-020	N: Male/Female	293.00
4273-025	N: Female/Female	280.00
4273-030	UHF: Male/Female	330.00
4273-035	UHF: Female/Female	280.00

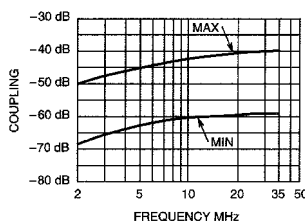
*Select from our list of QC Connectors.

4275 Specifications

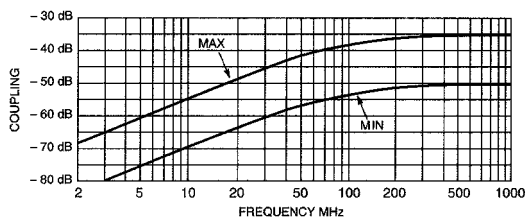
Power Rating: 1 kW max.
Frequency Range: 20 - 1000 MHz
Insertion VSWR: with N connectors ~ 0.1 dB max.

Part #	QC Connectors	Price Ea.
4275	No Connectors*	\$242.00
4275-020	N: Male/Female	293.00
4275-025	N: Female/Female	280.00
4275-030	UHF: Male/Female	330.00
4275-035	UHF: Female/Female	280.00

*Select from our list of QC Connectors.



Model 4273



Model 4275

Peak Power Measurement Modification Kit

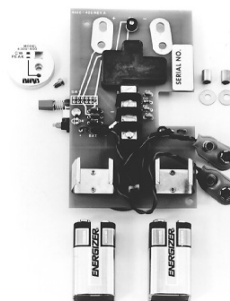
for BIRD Model 43 Wattmeters

15 minutes/no soldering will turn your Bird into a True Peak Reading Meter.

Accuracy: CW mode $\pm 5\%$ /Peak mode $\pm 8\%$.
9V transistor radio batteries included.

Part #: 4300-400

Price: \$178.00



Misc. Accessories



Connector Cables

Special meter connecting cable for Bird Directional Couplers.

Allows 2080-002 meter to be remotely operated from Directional Couplers shown on page 161

Part	Our Part #	Net
Connector	7500-076	\$15.95
39 1/2" Cable	7500-072-1	24.95
15' Cable	7500-072-3	27.95
25' Cable	7500-072-25	36.95

Replacement Meters for the Bird 43

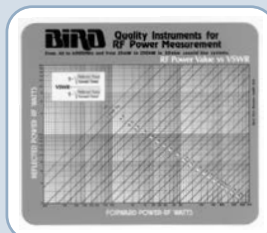
Fix that broken wattmeter with a new calibrated BIRD Meter Movement.

These meters may be connected to BIRD's directional couplers for remote measurement. See connecting cables 7500 series above.

Part #: 2080-002 · \$95.00



BIRD Power vs. VSWR Chart



Nomograph gives fast reference from Power to VSWR.

Made of laminated plastic for heavy use. 5 1/2" x 6 1/2", 2 sided.

Part #: 4400-012 · \$10.00 ea.

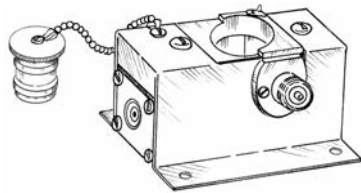
Replacement Feet for Bird Wattmeters

4 per package.

Part #: RP5-1388 · \$2.00/pkg.

Directional Couplers

All couplers utilize standard BIRD Quick Change Connectors and BIRD Elements. Mounting brackets included with 4522-002-5. These couplers are designed to match standard BIRD meter P/N 2080-002.



Single Directional Coupler
With Cover/Bracket

Part #: 4230-059
Price: \$169.95



Dual Directional Coupler
Ideal for remote measurements. Switch between the two elements for forward & reverse power reading.

Part #: 4522-002-5
Price: \$215.00

Bird Directional Coupler Elements



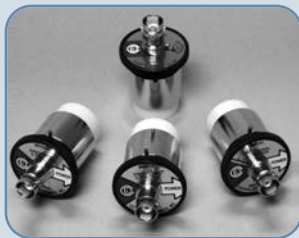
The directional coupler plug-in elements listed below are used for signal leveling, frequency control, wave-shape monitoring, local oscillator or marker signal injection, etc. They extract a calibrated amount of power from the main line signal flowing in the direction of the arrow. This attenuated signal is NOT rectified (as in the standard measuring elements), but is brought out through a female BNC connector on top of the element. Coupler elements fit the standard sockets, but there are no dc output tabs on the element body since no dc is produced. An added convenience is rotating the element between 0° and 180°; varies the amount of coupling like a variable attenuator. Minimum attenuation of the main line signal is the nominal coupling ± 1 dB shown for each unit within the stated frequency band. Select from table below.

Frequency Band (MHz)	Nominal Coupling Max. Main Line Power*	Model	Price Each
50-100		400-50	\$ 135.00
75-150		400-75	135.00
125-250	-40 dB	400-125	135.00
225-450	1 kW	400-225	135.00
400-800		400-400	135.00
750-1250		400-750	135.00

*The power rating of the directional couplers cannot exceed the peak and average power ratings of the transmission line.

Sampler Elements

CD X-Tractor Sampler Elements



The X-Tractor Series sampler elements from Coaxial Dynamics are Directional or Non-Directional couplers that replace the standard element in your wattmeter for such applications as RF signal observation, spectrum analysis or frequency counting and control where main line power does not exceed 10,000W on Non-Directional or 1000W on Directional X-Tractors. CDI elements come with a 2 Year limited Warranty.

Non-Directional, Adjustable

Model	Line Size	Coupling (dB)	Price
87004	7/8"	43 \pm 8 dB	\$100.00
87005	7/8"	45 \pm 8 dB	100.00

Power Range: Up to 10,000 Watts
Frequency Range: 2 MHz to 1000 MHz
VSWR: 1.1:1 max 2 to 512 MHz
1.25:1 max 512 to 1000 MHz
Insertion Loss: 0.1 dB max 2 to 512 MHz
0.2 dB max 512 to 1000 MHz
Accuracy: $\pm 5\%$ of full scale
Impedance: 50-Ohms
Connector: BNC Female
Weight: 1.25 oz. (.035 kg)

Directional, Fixed

Model	Line Size	Max Power	Coupling (dB)	Frequency Range	Price
87014S*	7/8"	1000 W	37.5 \pm .75 dB	54 to 90 MHz	\$147.00
87015*	7/8"	1000 W	50 \pm .1 dB	50 to 500 MHz	105.00
87016	7/8"	1000 W	37.5 \pm .75 dB	174 to 230 MHz	147.00

* ± 1 dB at 174 to 500 MHz, Coupling drops to 48 dB at 50 MHz

VSWR: 1.1:1 max
Insertion Loss: 0.1 dB max
Accuracy: $\pm 5\%$ of full scale
Directivity: 30 dB
Impedance: 50-Ohms
Connector: BNC Female
Weight: 1.25 oz. (.035 kg)

BIRD 4274 Sampler Elements



The 4274 Series sampler elements are non-directional couplers that replace the standard element in your Bird 43 wattmeter for such applications as RF signal observation, spectrum analysis or frequency counting and control where main line power does not exceed 500 w. The Model 4274-025 is a wide range device that provides an unrectified signal at about -50 dB \pm 2 dB from 25-1000 MHz tapering to -66 dB at 2 MHz. The Model 4274-050 delivers a variable unrectified signal from -35 to -48 dB (± 1 dB) from 100-400 MHz.

Non-Directional Sampler Elements for QC-Type or 7/8" EIA Line

Model	Frequency Band (MHz)	Nominal Coupling	Max. Main Line Power	Price Each
4274-025	25-1000	-50 dB \pm 2 dB (-66 dB @ 2 MHz)	500w	\$129.00
4274-050	100-400	-35 to -48 dB (± 1 dB) Adjustable	500 w	138.95

Peak Reading Elements for Model 43

Power	0.45 - 2.5 MHz	Net Each
1000w	Bird 1000P	\$ 180.00
2500w	Bird 2500P	265.00
5000w	Bird 5000P	265.00
10000w	Bird 10000P	265.00



WATTMETER ACCESSORIES

7/8" Wattmeter Elements for BIRD 43 and Coaxial Dynamics 81000 Series Meters



Coaxial Dynamics and Bird Electronics 7/8" Elements are designed to meet the same specifications, and are 100% interchangeable.



Dust / Safety Plug
Part #: 3610-031 • Price Each: \$ 8.95

RF Parts Company is an Authorized Coaxial Dynamics Distributor. Contact RF Parts for all your Coaxial Dynamics needs.

Standard Elements

Watts	0.45-2.5 MHz		2-30 MHz		25-60 MHz		50-125 MHz		100-250 MHz		200-500 MHz		400-1000 MHz	
5	—		Not Available	Bird 5A	\$83.00	Bird 5B	\$83.00	Bird 5C	\$83.00	Bird 5D	\$83.00	Bird 5E	\$83.00	
			Not Available	CD 82012	75.00	CD 82020	75.00	CD 82028	75.00	CD 82036	75.00	CD 82045	75.00	
10	—		Bird 10H	\$171.00	Bird 10A	83.00	Bird 10B	83.00	Bird 10C	83.00	Bird 10D	83.00	Bird 10E	83.00
			Not Available		CD 82013	75.00	CD 82021	75.00	CD 82029	75.00	CD 82037	75.00	CD 82046	75.00
25	—		Bird 25H	171.00	Bird 25A	83.00	Bird 25B	83.00	Bird 25C	83.00	Bird 25D	83.00	Bird 25E	83.00
			Not Available		CD 82014	75.00	CD 82022	75.00	CD 82030	75.00	CD 82038	75.00	CD 82047	75.00
50	—		Bird 50H	171.00	Bird 50A	83.00	Bird 50B	83.00	Bird 50C	83.00	Bird 50D	83.00	Bird 50E	83.00
			CD 82004	105.00	CD 82015	75.00	CD 82023	75.00	CD 82031	75.00	CD 82039	75.00	CD 82048	75.00
100	—		Bird 100H	171.00	Bird 100A	83.00	Bird 100B	83.00	Bird 100C	83.00	Bird 100D	83.00	Bird 100E	83.00
			CD 82005	105.00	CD 82016	75.00	CD 82024	75.00	CD 82032	75.00	CD 82041	75.00	CD 82049	75.00
250	—		Bird 250H	171.00	Bird 250A	83.00	Bird 250B	83.00	Bird 250C	83.00	Bird 250D	83.00	Bird 250E	83.00
			CD 82006	105.00	CD 82017	75.00	CD 82025	75.00	CD 82033	75.00	CD 82042	75.00	CD 82050	75.00
500	—		Bird 500H	171.00	Bird 500A	83.00	Bird 500B	83.00	Bird 500C	83.00	Bird 500D	83.00	Bird 500E	83.00
			CD 82007	105.00	CD 82018	75.00	CD 82026	75.00	CD 82034	75.00	CD 82043	75.00	CD 82051	75.00
1000	Bird 1000P	265.00	Bird 1000H	171.00	Bird 1000A	83.00	Bird 1000B	83.00	Bird 1000C	83.00	Bird 1000D	83.00	Bird 1000E	83.00
	—	—	CD 82008	105.00	CD 82019	75.00	CD 82027	75.00	CD 82035	75.00	CD 82044	75.00	CD 82052	75.00
2500	—		Bird 2500H	259.00	—	—		—		—		—		
			CD 82009	139.00										
5000	—		Bird 5000H	259.00	—	—		—		—		—		
			CD 82010	139.00										

7/8" Wattmeter Elements for BIRD 43 and Coaxial Dynamics 81000 Series Meters

Pulse Power Elements

Watts	0.45-2.5 MHz		2-30 MHz		25-60 MHz		50-125 MHz		100-250 MHz		200-500 MHz		400-1000 MHz	
2500	Bird 2500P	265.00	—		Bird 2500A	175.00	Bird 2500B	175.00	Bird 2500C	175.00	—		Bird 2500E	175.00
					CD 82053	162.00	CD 82054	162.00	CD 82055	162.00	CD 82056	162.00	CD 82057	162.00
5000	Bird 5000P	265.00	—		Bird 5000A	175.00	Bird 5000B	175.00	Bird 5000C	175.00	—		Bird 5000E	175.00
					CD 82058	162.00	CD 82059	162.00	CD 82060	162.00	CD 82061	162.00	CD 82062	162.00
10000	Bird 10000P	265.00	Bird 10000H	259.00	—		Bird 10000B	259.00	—		—		Bird 10000E	259.00
			CD 82011	162.00	CD 82063	162.00	CD 82064	162.00	CD 82065	162.00	CD 82066	162.00	CD 82067	162.00
25000	—		Only for 81000A Wattmeter CD 820S016		—		—		—		—		—	

Bird Elements 500 - 1000 Watts, 950 - 1260 MHz, are rated at 100 Watts average. Bird Elements 2500 Watts and higher, 25-1000 MHz, are rated at 1000 Watts average. Bird Elements are capable of reading peak and average power. Coaxial Dynamics Elements are peak mode only.

High Frequency Elements



Watts	950-1260 MHz		1100-1800 MHz		1700-1999 MHz		1999-2200 MHz		2200-2300 MHz		2300-2400 MHz		2400-2500 MHz		2500-2600 MHz		2600-2700 MHz	
1	BIRD 1J	171.00	BIRD 1K	171.00	BIRD 1L1	171.00	BIRD 1L2	171.00	BIRD 1M	171.00	BIRD 431-17	171.00	BIRD 431-20	171.00	BIRD 431-23	171.00	BIRD 431-120	171.00
	—		CD 82077	156.00	—		—		—		—		—		—		—	
2.5	BIRD 2.5J	171.00	BIRD 2.5K	171.00	BIRD 2.5L1	171.00	BIRD 2.5L2	171.00	BIRD 2.5M	171.00	BIRD 431-110	171.00	BIRD 431-107	171.00	BIRD 431-108	171.00	BIRD 431-117	171.00
	—		CD 82078	156.00	—		—		—		—		—		—		—	
5	BIRD 5J	171.00	BIRD 5K	171.00	BIRD 5L1	171.00	BIRD 5L2	171.00	BIRD 5M	171.00	BIRD 432-15	171.00	BIRD 432-28	171.00	BIRD 432-2	171.00	BIRD 432-12	171.00
	CD 82068	156.00	CD 82079	156.00	—		—		—		—		—		—		—	
10	BIRD 10J	171.00	BIRD 10K	171.00	BIRD 10L1	171.00	BIRD 10L2	171.00	BIRD 10M	171.00	BIRD 432-125	171.00	BIRD 432-141	171.00	BIRD 432-102	171.00	BIRD 432-104	171.00
	CD 82069	156.00	CD 82080	156.00	—		—		—		—		—		—		—	
25	BIRD 25J	171.00	BIRD 25K	171.00	BIRD 25L1	171.00	BIRD 25L2	171.00	BIRD 25M	171.00	BIRD 433-19	171.00	BIRD 433-20	171.00	BIRD 433-35	171.00	BIRD 433-36	171.00
	CD 82070	156.00	CD 82081	149.00	—		—		—		—		—		—		—	
50	BIRD 50J	171.00	BIRD 50K	171.00	BIRD 50L1	171.00	BIRD 50L2	171.00	BIRD 50M	171.00	BIRD 433-37	171.00	BIRD 433-38	171.00	BIRD 433-163	171.00	BIRD 433-164	171.00
	CD 82071	156.00	CD 82082	156.00	—		—		—		—		—		—		—	
100	BIRD 100J	171.00	—		—		—		—		—		—		—		—	
	CD 82072	156.00																
250	BIRD 250J	171.00	—		—		—		—		—		—		—		—	
	CD 82073	156.00																

High Frequency Milliwatt Elements

Watts	950-1260 MHz		1250-1500 MHz		1500-1700 MHz		1700-2200 MHz		2300-2400 MHz		2400-2500 MHz		2500-2600 MHz	
100 mW	BIRD 430-82	262.00	BIRD 430-209	262.00	BIRD 430-210	262.00	BIRD 430-178	262.00	BIRD 430-211	262.00	BIRD 430-182	262.00	—	
	—		—		—		—		—		—			
250 mW	—		—		—		BIRD 430-1	262.00	BIRD 430-239	262.00	BIRD 430-240	262.00	BIRD 430-241	262.00
							—		—		—		—	
500 mW	—		BIRD 430-259	262.00	—		BIRD 430-95	262.00	—		BIRD 430-159	262.00	—	
			—				—				—			

WATTMETER ACCESSORIES



Milliwatt Elements For Bird 43 and Coax Dynamics Meters

 Bird Electronic: \$175.00		 Coaxial Dynamics: \$142.00	
Freq. MHz	Model Number	Freq. MHz	Model Number
100 mW			
—	—	20-23	820A022
45-50	430-266	44-50	820A047
—	—	62-70	820A066
72-76	430-2	72-76	820A074
—	—	105-120	820A113
108-136	430-57	125-136	820A130
135-175	430-86	135-165	820A150
—	—	160-175	820A167
—	—	190-205	820A198
320-340	430-205	310-350	820A330
400-420	430-7	400-420	820A410
420-450	430-208	—	—
450-470	430-8	450-470	820A460
600-800	430-169	740-760	820A750
800-1000	430-263	800-900	820A850

250 mW			
72-76	430-22	70-80	820B075
—	—	72-76	820B074
88-108	430-217	—	—
105-120	430-20	105-120	820B113
116-126	430-48	—	—
130-150	430-13	130-150	820B140
—	—	150-180	820B165
190-210	430-65	—	—
—	—	310-350	820B330
—	—	416-436	820B426
450-470	430-61	—	—
—	—	800-900	820B850
800-1000	430-264	900-950	820B925

500 mW			
—	—	25-30	820C028
—	—	65-90	820C078
72-76	430-33	72-76	820C074
88-108	430-247	—	—
105-120	430-26	105-120	820C113
120-136	430-248	—	—
136-150	430-249	130-170	820C150
240-290	430-27	240-290	820C265
290-340	430-253	300-350	820C325
340-360	430-157	—	—
350-400	430-254	—	—
400-450	430-255	—	—
450-500	430-256	450-470	820C460
600-800	430-258	800-900	820C850
800-1000	430-265	900-950	820C925

Low Watt Elements For Bird 43 and Coax Dynamics Meters

 Bird Electronic: \$172.00		 Coaxial Dynamics: \$100.00	
Freq. MHz	Model Number	Freq. MHz	Model Number
1 Watt			
—	—	25-30	820D028
—	—	28-44	820D036
40-50	040-1	40-50	820D045
50-60	050-1	44-70	820D057
60-80	060-1	—	—
80-95	080-1	—	—
95-125	095-1	70-120	820D095
110-160	110-1	108-118	820D113
150-250	150-1	108-181	820D145
—	—	150-250	820D200
200-300	200-1	200-300	820D250
275-450	275-1	275-450	820D363
—	—	310-350	820D330
—	—	327-543	820D435
425-850	425-1	425-850	820D638
800-1000	801-1	800-950	820D875

2.5 Watts			
25-30	025-2	—	—
30-40	030-2	—	—
40-50	040-2	—	—
50-60	050-2	—	—
60-80	060-2	60-80	820E070
80-95	080-2	80-140	820E110
95-150	095-2	95-150	820E123
150-250	150-2	150-250	820E200
200-300	200-2	200-300	820E250
250-450	250-2	225-400	820E313
—	—	275-450	820E363
400-850	400-2	340-560	820E450
800-1000	801-2	800-950	820E875

Low Power Elements for Model 43

1 Watt, 2.5 Watts, 100mW, 250mW and 500mW are available in fixed frequency ranges. Call for current pricing.

Specify frequency, as they are narrowband. Usually a special order item, please allow 30-45 days.

Bird is in stock!

Immediate Shipment ~ Best Pricing

**RF Parts can special order most
Bird products not listed in our Catalog.**

**Dummy Load & High Power Broadcast Models available.
Delivery is often only a few days.**

Quick Change Connectors For use on Bird & Coaxial Dynamic Wattmeters and Directional Couplers

Photo	Style	Part #	Mfg.	Price
	LC-F	4240-031	Bird	\$ 96.00
		RFP031	Bird Style	48.00
	LC-M	4240-025	Bird	235.00
		RFP025	Bird Style	175.00
	UHF-F (SO-239)	4240-050	Bird	19.00
		RFP050	Bird Style	13.00
	UHF-M (PL-259)	4240-179	Bird	69.00
		RFP179	Bird Style	39.00
	N-F	4240-062	Bird	19.00
		RFP062	Bird Style	13.00
	N-M	4240-063	Bird	32.00
		RFP063	Bird Style	24.00
	HN-F	4240-268	Bird	43.50
		RFP268	Bird Style	22.00
	HN-M	4240-278	Bird	78.00
		RFP278	Bird Style	50.00
	TNC-F	4240-156	Bird	28.00
		RFP156	Bird Style	19.00
	TNC-M	4240-160	Bird	38.00
		RFP160	Bird Style	30.00
	BNC-F	4240-125	Bird	32.00
		RFP125	Bird Style	18.00

Photo	Style	Part #	Mfg.	Price
	BNC-M	4240-132	Bird	80.00
		RFP132	Bird Style	56.00
	MINI UHF-F	4240-346	Bird	\$ 62.00
		RFP346	Bird Style	46.00
	SMA-F	4240-336	Bird	108.00
		RFP336	Bird Style	52.00
	SMA-M	4240-334	Bird	108.00
		RFP334	Bird Style	76.00
	7-16 (M) European IEC	4240-363	Bird	105.00
		RFP363	Bird Style	99.00
	7-16 (F) European IEC	4240-344	Bird	105.00
		RFP344	Bird Style	58.00
	Open Terminal	4240-080	Bird	92.00
		RFP080	Bird Style	66.00
	C-F	RFP100	Bird Style	65.00
	7/8" Swivel Flange	RFP002	Bird Style	193.00
	1-5/8" Swivel Flange	RFP208	Bird Style	220.00
	1-5/8" EIA Flange	RFP096	Bird Style	205.00
	3-1/8" EIA Flange	RFP194	Bird Style	229.00

BIRD Model 5000-XT

5000-XT, Digital Power Meter

The hand-held digital power meter has been completely redesigned with the new Bird® 5000-XT. Ideally suited for field techs and engineers who need to make power measurements anywhere they go, the 5000-XT's new user interface has an intuitive, menu-driven design, making it the easiest to use on the market. It's operable even with one hand and compatible with all our field and legacy sensors.



Model: 5000-XT Digital Power Meter

Display	Indoor/Outdoor Viewable Monochrome VGA Display with Backlight
Functions	Sensor Limited: VSWR, Peak Power, True Average Power, Crest Factor, CCDF, Burst Power and Data Logging
Sensor Detection	Automatic
Battery	Rechargeable, Field Replaceable, Lithium Ion Batteries
AC Adapter/Changer	115/230 VAC, 50/60 Hz
Battery Life	20 Hours Continuous Usage with WPS Series Sensors, 60 Hours Continuous Usage with All Other Sensors
Calibration Interval	No calibration required
Languages	English, Mandarin, Spanish
Dimensions	6.6" x 4.0" x 1.95" (168 mm x 102 mm x 50 mm)
Interface	Sensor: DB9, USB 2.0 SeaLatch Type A. PC: USB 2.0 SeaLatch Type B
Weight (lbs.)	1.4 lbs (with battery)
Operating Temperature	0 to +50 °C, (0 to 122 °F)
Storage Temperature	-20 to +50 °C, (-4 to 122 °F)
Drop Tested	EN 61010-1, MIL-STD-810F, MIL-PRF-28800F, Class 2
International Certs	CE, RoHS
Notes	Standard Accessories (included with 5000-XT). Soft Case and Carabiner, User Manual, Cigarette Adaptor, 10 ft. USB SeaLatch Cable, Battery, Power Supply with (3) Adapters and 10 ft. DB9 Cable

Part #: 5000-XT · Price: \$940.00

BIRD Thruline® Sensor System



Bird's most sophisticated Thruline Sensor System is the heart of the Model 5000XT

Model: 5010 Sensor

Sensor Type: Bird Thruline® directional dual-element line section.

Power / Frequency Range:	1 to 1000 W, 2.0 MHz to 3600 MHz.
Accuracy:	±5% of reading (0° to 50 °C), ±10% of reading (-10° to 0 °C)
Peak / Average Power Ratio:	10 dB maximum with APM elements.
Settling Time:	< 2 seconds.
Connectors:	QC Type. Female N normally supplied.
Insertion VSWR:	1.05:1 from 0.45 to 1000 MHz (with N connectors).
Dimensions:	1.875"H x 1.875"W x 3.5"D (47.7 x 47.7 x 89.9 mm) excluding connectors.
Weight:	1.12 lb (0.51 kg)

General Specifications

Power Supply:	Rechargeable Nickel-Metal Hydride (NiMH) battery. Meter may be operated from AC mains using supplied adapter.
Battery Life:	100 hours, minimum, per charge.
Operating Temperature:	-10° to +50 °C (Meter and Sensor).
Storage Temperature:	-40° to +80 °C (Meter and Sensor).
Humidity:	95% ± 5% max. (non-condensing).
Mechanical Shock:	MIL-T-28800D Class 3.
Vibration:	MIL-T-28800D Class 3.
Standard Accessories:	Instruction manual, soft carrying case, AC charger/adapter, serial communications cable, automotive power adapter, PC software tool.

Part #: 5010B · Price: \$683.00

- **Dual-Element Thruline® Design for Simultaneous Forward and Reflected Power Readings.**
- **Measures True Average Power.**
- **±5% of Reading Accuracy Rivals Thermal Wattmeters in Actual Field Use.**
- **Small, Easily-Remoted Sensor Facilitates**
- **Convenient Hand-held Operation.**

The Model 5010 Dual-Socket Thruline® Power Sensor is a precision 50-ohm 7/8-inch "Smart" Line Section which accepts Bird digital-ready Plug-in Elements. The Model 5010 Sensor provides true average power readings for digital as well as traditional analog RF systems.

The Model 5010 Power Sensor is compatible with many existing accessories for 7/8" line, including signal samplers, and over 20 types of QC connectors. QC Connectors can rapidly and conveniently be changed in the field by removing four screws from the connector.

Use of an external sensor design makes the Model 5000 Digital Power Meter a perfect platform for sensor enhancements and cross-platform compatibility with other Bird product lines.

Digitally-Modulated RF

- PCS and Other Digital Wireless Communication Services
- DAB, DTV, and HDTV Pre- and Post-Combiner Power Measurements
- Handles Peak-to-Average Power Ratios to 10dB



CW, AM, and FM

- Cellular Communication
- Analog Wireless Applications
- Television Video and Audio Power
- Aeronautical, Military, Public Service, and Mobile Radio Systems



Available Accessories

- Non-Directional Samplers and Directional Coupler Elements
- Quick-Change Connectors
- Handset output verification
- Waveform capture



BIRD Terminating Power Sensor



- Significant cost and time savings
- Easy To Use
- No calibration required
- Field Ready

Designed to make Terminating Power Measurements with the full flexibility of a portable precision instrument.

(Requires Bird MODEL 5000, 5000-EX, 5000-XT, SA-4000, SA-1700-P or SA-2500A)



Specifications

Accuracy:	±5% of reading ±1 mW RSS (excluding mismatch uncertainty). When operating below 100 MHz and above 40 °C, add 1%.
Altitude:	Up to 15,000 feet operating
Frequency Range:	40 MHz-4 GHz
Humidity:	95% max. (non-condensing)
Input Connector:	Precision N Male
Input Impedance:	50 Ohms (nominal)
Input VSWR:	Typical 1.03 (36.6 dB return loss); maximum 1.20 (20.8 dB return loss)
Operating Temperature:	-10 to 50 °C (14 to 122 °F)
Output Connector:	Male DB-9 to interface to Digital Power Meter or Site Analyzer
Peak/Average Ratio:	12 dB maximum

Power Range:	-20.000 to +10.000 dBm (10.1000 µW to 10.000 mW)
Power Supply:	From host instrument via cable connection
Sensor Type:	Terminating Power Sensor. Terminated average power measurement.
Size:	6" long (including connectors); 1.5" diameter
Storage Temperature:	-40 to 80 °C (40 to 176 °F)
Warm Up Time:	5 Minutes
Weight:	3/4 lb. Maximum

Part #: 5011EF • \$1575.00 (40 MHz - 12 GHz)

Part #: 5011 • \$1260.00 (40 MHz - 4 GHz)

BIRD Wideband Power Sensor



- Easy to use & competitive price
- Wide dynamic range (350 MHz - 4000 MHz) 30 dB Directivity - Up to 3 GHz; 28 dB up to 4 GHz
- Direct connection to PC, Digital Power Meter or Site Analyzer® - NO BLACK BOX!
- Directional-Forward and Reflected Power - No elements required!

Bird's® Site Management Solutions for Power Measurement. When combined with a Digital Power Meter, Site Analyzer Family of line and antenna analysis products, or a Personal Computer, the Wideband Power Sensor becomes an integral part of a very robust and sophisticated power measurement solution.



Specifications

Altitude:	15,000 ft, operating
Directivity:	30 dB up to 3.0 GHz, 28 dB up to 4.0 GHz
Frequency Range:	350 MHz - 4 GHz
Humidity:	95% maximum (non-condensing)
Impedance:	50 Ohms (nominal)
Input Connector:	"N" Female
Insertion Loss:	<0.05 dB up to 1 GHz, <0.1 dB from 1 GHz to 4.0 GHz
Insertion VSWR:	1.05 up to 2.5 GHz, 1.10 from 2.5 to 4.0 GHz
Interfaces:	<ul style="list-style-type: none"> • DPM Interface: EIA-232, 9600 Baud, no parity, 8 data bits, 1 stop bit • PC Interface (1): EIA-232, 9600 Baud, no parity, 8 data bits, 1 stop bit • PC interface (2): USB 1.1 compatible interface

Mechanical Shock:	Designed to meet MIL-PRF-28800F class 3
Operating Temp.:	-10 to +50 °C (+14 to +122 °F)
Output Connector:	"N" Female
Power Measurement Range:	0.15 W - 150 W average, 400 W peak
Size:	3.79 X 4.56 X 1.28 inches without connectors (4.73 X 4.56 X 1.28 inches including two "N" (F) connectors)
Storage Temperature:	-40 to +80 °C (-40 ° to +176 °F)
Vibration:	Designed to meet MIL-PRF-28800F class 3
Weight:	1.1 lb. (0.5kg)

Part #: 5012A • \$2310.00

WATTMETER ACCESSORIES

Wattmeter & Accessory Carrying Cases

4300 Series Carrying Cases



This hard-sided case includes shock absorbing laminated die-cut foam insets. Features include fold down handles, quick release latches, ridged aluminum frame, and durable polyurethane shell.

Part #	Price Ea.
4300-085 for Model 4391	\$175.00
4300-055 for Model 4410	230.00
4300-061 for Model 43 or 43P	82.00

EC-1 Portable Element Case

High Impact Element Case

- Holds 12 elements
- High density custom foam insert
- High impact case with durable ABS latches
- Unbreakable, watertight, airtight and dustproof
- Automatic purge valve for quick equalization after changes in atmospheric pressure



RFP EC-2



RFP EC-1

Part #	Price Ea.
RFP EC-1 (watertight)	\$60.00
RFP EC-2	36.00

Portable Wattmeter Case

High Impact Accessory Case for Wattmeters and Accessories



- Case fits Thruline Wattmeter models: APM-16, 43, 43P, 4304A, 4308, 4410A
- High impact case with durable ABS latches
- Unbreakable, watertight, airtight and dustproof
- High density custom foam insert
- Automatic purge valve for quick equalization after changes in atmospheric pressure
- Holds either 1 Wattmeter, 5 Elements and 1 small Load, or 1 Wattmeter and 7 Elements

Part Number: RFPCC6 • Price: \$65.00