

PR400 Portable Two-Way Radio Specifications*

General Specifications		
	VHF	UHF
Frequency	146-174MHz	403-440MHz, 438-470MHz, 465-495MHz
Channel Capacity	16, 32 or 64	16, 32 or 64
Power Supply	7.5 Volts +/- 20%	7.5 Volts +/- 20%
FCC Description	ABZ99FT3045	ABZ99FT4057, ABZ99FT4056, ABZ99FT4058

No Display or Keypad

	DIMENSIONS		WEIGHT (w/ radio, battery, and belt clip, w/o antenna)
	H w/o knobs x W @spkr x D @ spkr	w/o belt clip	
1100 mAh NiCd	130mm H x 62mm W x 45mm D (5.12" H x 2.4" W x 1.75" D)		430 g (15.17 oz)
1300 mAh NiMH Intrinsically Safe (FM)	130mm H x 62mm W x 45mm D (5.12" H x 2.4" W x 1.75" D)		449 g (15.83 oz)
1400 mAh NiMH	130mm H x 62mm W x 43mm D (5.12" H x 2.4" W x 1.69" D)		446 g (15.73 oz)
1600 mAh Slim Li-ion	130mm H x 62mm W x 42mm D (5.12" H x 2.4" W x 1.65" D)		377 g (13.30 oz)
1800 mAh Li-ion	130mm H x 62mm W x 45mm D (5.12" H x 2.4" W x 1.75" D)		376 g (13.26 oz)

Full Display and Limited Keypad

	DIMENSIONS		WEIGHT (w/ radio, battery, and belt clip, w/o antenna)
	H w/o knobs x W @spkr x D @ spkr	w/o belt clip	
1100 mAh NiCd	130mm H x 62mm W x 45mm D (5.12" H x 2.4" W x 1.75" D)		451 g (15.91 oz)
1300 mAh NiMH Intrinsically Safe (FM)	130mm H x 62mm W x 45mm D (5.12" H x 2.4" W x 1.75" D)		469 g (16.54 oz)
1400 mAh NiMH	130mm H x 62mm W x 43mm D (5.12" H x 2.4" W x 1.69" D)		467 g (16.47 oz)
1600 mAh Slim Li-ion	130mm H x 62mm W x 42mm D (5.12" H x 2.4" W x 1.65" D)		397 g (14.0 oz)
1800 mAh Li-ion	130mm H x 62mm W x 45mm D (5.12" H x 2.4" W x 1.75" D)		396 g (13.97 oz)

Full Display and Full Keypad

	DIMENSIONS		WEIGHT (w/ radio, battery, and belt clip, w/o antenna)
	H w/o knobs x W @spkr x D @ spkr	w/o belt clip	
1100 mAh NiCd	130mm H x 62mm W x 45mm D (5.12" H x 2.4" W x 1.75" D)		451 g (15.91 oz)
1300 mAh NiMH Intrinsically Safe (FM)	130mm H x 62mm W x 45mm D (5.12" H x 2.4" W x 1.75" D)		469 g (16.54 oz)
1400 mAh NiMH	130mm H x 62mm W x 43mm D (5.12" H x 2.4" W x 1.69" D)		467 g (16.47 oz)
1600 mAh Slim Li-ion	130mm H x 62mm W x 42mm D (5.12" H x 2.4" W x 1.65" D)		397 g (14.0 oz)
1800 mAh Li-ion	130mm H x 62mm W x 45mm D (5.12" H x 2.4" W x 1.75" D)		396 g (13.97 oz)

Average Battery Life

BATTERY	CAPACITY (mAh)	HI-PWR 5W Talk Time (hrs)	LO-PWR 1W Talk Time (hrs)
1100 mAh NiCd	1100	8	10
1300 mAh NiMH Intrinsically Safe (FM)	1300	9	11
1400 mAh NiMH	1400	10	13
1600 mAh Slim Li-ion	1600	12	17
1800 mAh Li-ion	1800	14	19

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PR400 Portable Two-Way Radio Specifications*

Receiver Specifications				
	VHF 12.5kHz	VHF 20/25/30kHz	UHF 12.5kHz	UHF 20/25/30kHz
Frequency	146-174MHz		403-440MHz, 438-470MHz, 465-495MHz	
Sensitivity 12dB SINAD	0.25µV (typical)		0.25µV (typical)	
Adjacent Channel Selectivity	-65 dB	-70 dB	-65 dB	-70 dB
Intermodulation	-70 dB		-70 dB	
Frequency Stability (-30 C to +60 C)	0.00025%		0.00025%	
Spur Rejection	-75 dB		-75 dB	
Image and 1/2 I-F Rejection	-70 dB		-70 dB	
Audio Output @ <5% Distortion	500 mW		500 mW	

Transmitter Specifications

	VHF	VHF	UHF	UHF
RF Output	Low	High	Low	High
	1W	5W	1W	4W
Frequency	146-174MHz		403-440MHz, 438-470MHz, 465-495MHz	
Channel Spacing	12.5/20/25kHz		12.5/20/25kHz	
Frequency Stability (-30 C to +60 C)	0.00025%		0.00025%	
Spurs/Harmonics	-36 dBm < 1GHz		-36 dBm < 1GHz	
	-30 dBm > 1GHz		-30 dBm > 1GHz	
Audio Response (from 6 dB/oct. Preemphasis, 300 to 3000Hz)	+1, -3 dB		+1, -3 dB	
Audio Distortion @ 1000 Hz, 60% Rated	< 3%		< 3%	
FM Noise	-40 dB (12.5kHz)		-40 dB (12.5kHz)	
	-45 dB (25kHz)		-45 dB (25kHz)	
FCC Modulation				
20/25/30 kHz	16K0F3E		16K0F3E	
12.5 kHz	11K0F3E		11K0F3E	

Portable Military Standards 810 C, D, E & F

Applicable MIL-STD	810C		810D		810E		810F	
	Methods	Procedures	Methods	Procedures	Methods	Procedures	Methods	Procedures
Low Pressure	500.1	1	500.2	2	500.3	2	500.4	1
High Temp	501.1	1, 2	501.2	1, 2	501.3	1, 2	501.4	1, 2
Low Temp	502.1	1	502.2	1, 2	502.3	1, 2	501.4	1, 2
Temp Shock	503.1	1	503.2	1	503.3	1	503.4	1
Solar Radiation	505.1	1	505.2	1	505.3	1	505.4	1
Rain	506.1	1, 2	506.2	1, 2	506.3	1, 2	506.4	1
Humidity	507.1	2	507.2	2, 3	507.3	2, 3	507.4	3
Salt Fog	509.1	1	509.2	1	509.3	1	509.4	1
Dust	510.1	1	510.2	1	510.3	1	510.4	1
Vibration	514.2	8, 10	514.3	1	514.4	1	514.5	1
Shock	516.3	1, 2, 5	516.3	1, 4	516.4	1, 4	516.5	1

PR400 Environmental Specifications

Operating Temperature	- 30 C to + 60 C
Storage Temperature	- 40 C to + 85 C
ESD	IEC 801-2 KV
Water and Dust Intrusion	IP 54

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