

## STANDARD FEATURES

- On/off volume control
- Four(4) pin socket
- Variable vent system
- Windscreen
- 1 year loss or damage
- 1 year warranty

## OPTIONS

- Programmable volume control
- Multi-memory(2-4) with tone indicator
- Programmable telephone coil
- Program thru faceplate
- **FRONTWAVE**  
2 microphone directional system
- Trimmer volume control
- On/Off switch
- Foto-coat
- Flip Top wax trap
- Windscoop/windhood

## Description

The FSS Paragon 4 an advanced 4 channel Digital Wide Dynamic Range Compression system.

Highly configurable digital signal processor provides excellent versatility, with independent channel compression characteristics including four(4) parameter I/O adjustment

Three(3) adjustable crossover frequencies

Full dynamic range, low noise and 16kHz bandwidth offers true, high fidelity audio processing without compromise

Adjustable low level expansion for quieter performance

Six(6) selectable time constants for each channel

AGC-o compression limiting

Effective dynamic range of 95dB

Variable notch filter with dynamic depth to help reduce acoustic feedback

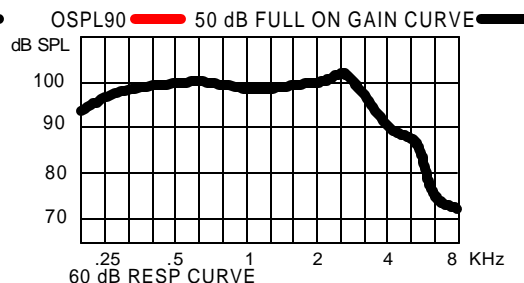
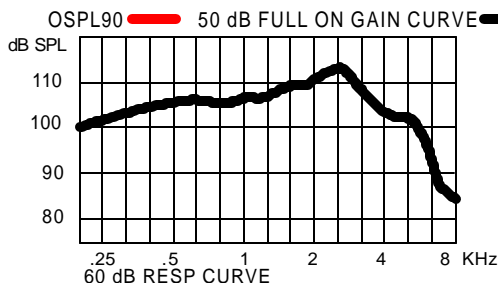
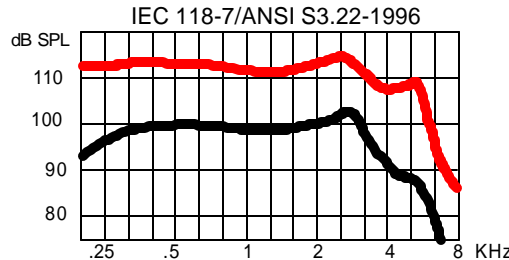
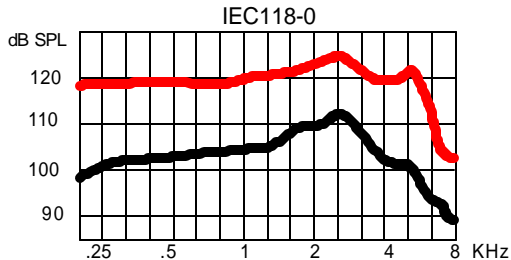
Low Battery Indicator

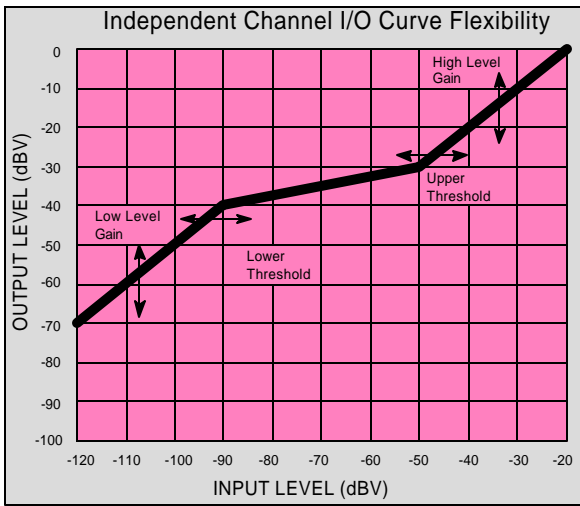
Multi Memory Tone Indicator

Programmable with HiPro or Microconnect card and the Audina ezFit software(NOAH or Standalone)

### Performance Data:

			Coupler 2cc IEC 118-7/94	Coupler MZ (7/1) IEC 118-0/94	Coupler 2cc ANSI S3.22-1996	Limits
SATURATION (OSPL 90)	Peak	dB SPL	115	125	115	+/- 3
	F Reference	dB SPL	113	120	113	+/- 3
	HF Average	dB SPL			113	+/- 3
Full-on Gain (Input: 50dB SPL)	Peak	dB	55	62	55	+/- 4
	F Reference	dB	49	58	48	+/- 4
	HF Average	dB			50	+/- 4
Nominal Reference Test Gain (RTG)		dB	38	48	36	
Frequency Range		Hz	200-7500			
Volume Control Range		dB	<40			
Total Harmonic Distortion at RTG:						
70 dB SPL in	500 Hz	%			1	<4
	800 Hz	%	1	1	1	<4
65 dB SPL in	1600 Hz	%			1	<4
Equivalent Input Noise Level		dB	30	30	30	<33
		dB				<33
Maximum Telecoil Sensitivity						
FOG; Input 10mA/m @ RTF		dB	101			
RTG; Input 31.6mA/m @ RTF		dB	105			
FOG; Input 31.6mA/m @ RTF		dB	104			
SPLITS @ RTF		dB				
HF Average		dB	96			
STS		dB	98			
		dB	1.0			
Supply Current	input dB SPL		60		65	
at RTG	mA		0.90		0.90	<1.0
Battery Life	Type 13 Zinc-Air(220mAh)	hrs	240		240	
	Type 312 Zinc-Air(110mAh)	hrs	120		120	
AGC @ 2KHz	Attack	mS	60	60	60	+/-50%
	Release	mS	800	800	800	+/-50%
Reference Test Frequency(RTF)		Hz	1600	1000	1000	





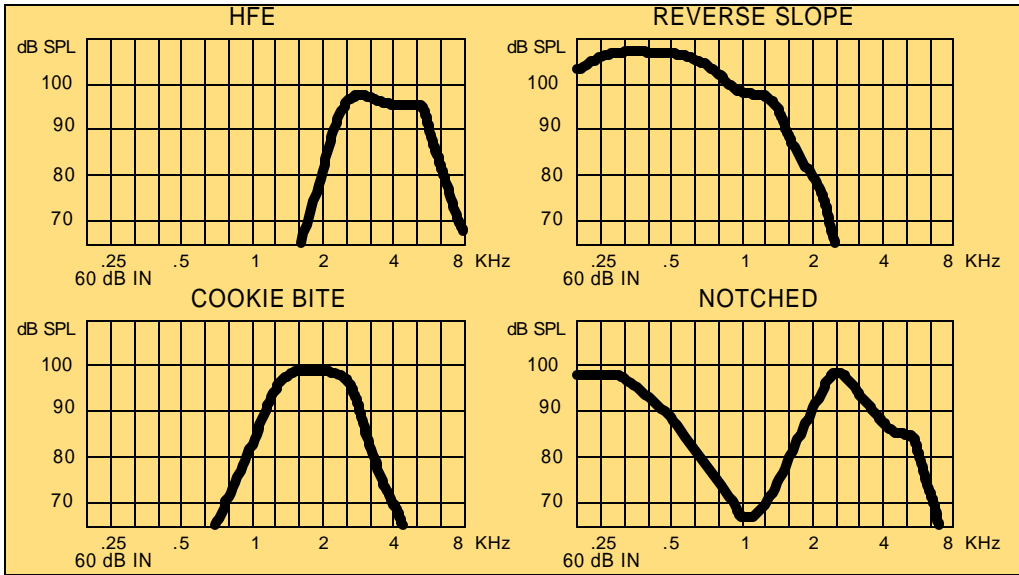
### CHANNEL PROCESSING

This figure represents the I/O characteristics of independent AGC channel processing. The I/O curve can be divided into three(3) main regions:

- \*Low input level linear region
- \*Compression region
- \*High input level linear region (return to linear)

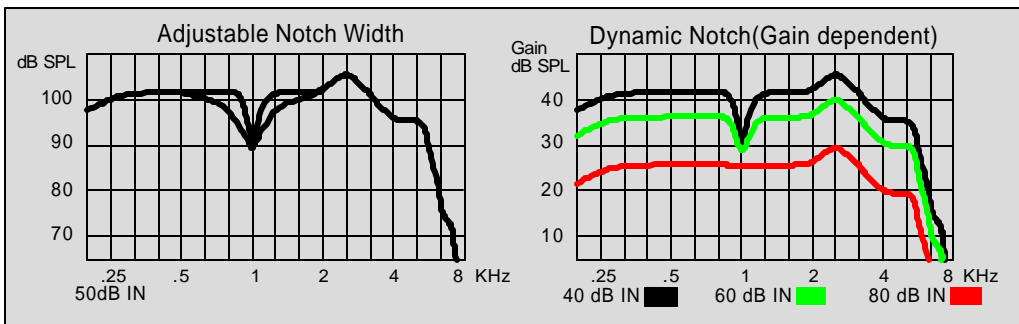
The I/O characteristics can be adjusted in four(4) ways:

- \*Low level gain
- \*Lower threshold
- \*Upper threshold
- \*Upper level gain



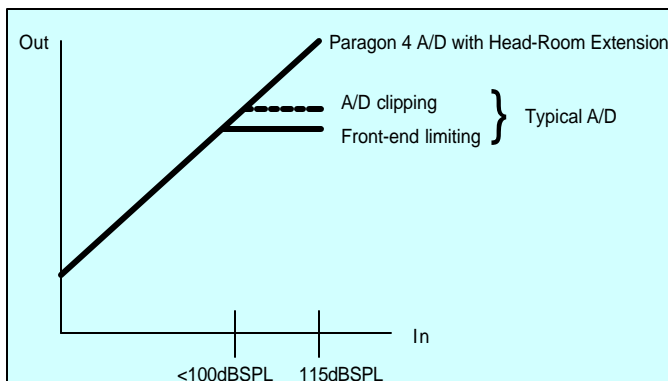
### FREQUENCY SHAPING

The response curves to the left show the flexibility you get with the independent AGC channel processing and the three(3) adjustable crossover frequencies you have with the Paragon 4.



### FEEDBACK MANAGEMENT

To help control feedback the Paragon 4 incorporates a dynamic(gain dependent) notch filter. The notch center is adjustable from .8kHz to 5kHz in fifteen(15) steps. The width is also adjustable from 1/12 octave to a full octave.



### HIGH FIDELITY DIGITAL SYSTEM

Dual A/D converters are combined with the Head-Room Extension Algorithm to yield a 16kHz bandwidth and a 95dB of full dynamic range hearing instrument.