

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
- Flexstrip Programming
- Trimmer volume control
- On/Off switch
- Foto-coat
- Flip Top wax trap
- Windscoop/windhood

Description

The FSS Paragon 2 an advanced 2 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

Adjustable crossover frequency from 300Hz to 6300Hz

Independent active low cut and high cut filters

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

Adjustable low level expansion for quieter performance

Twin Average Detectors in each channel

AGC-o compression limiting

Effective dynamic range of 95dB

Variable notch filter with dynamic depth to help reduce acoustic feedback

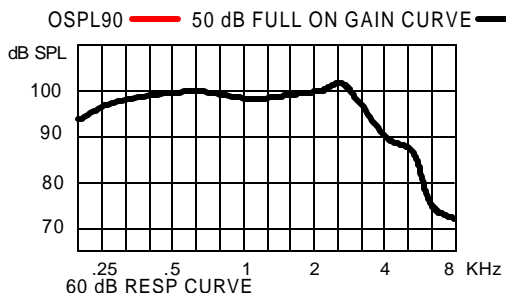
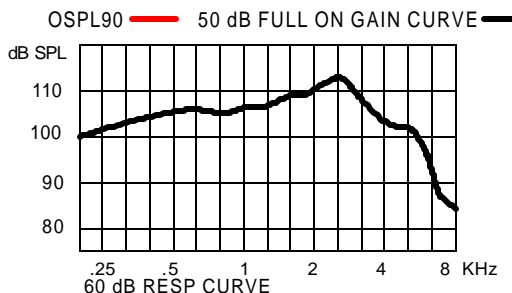
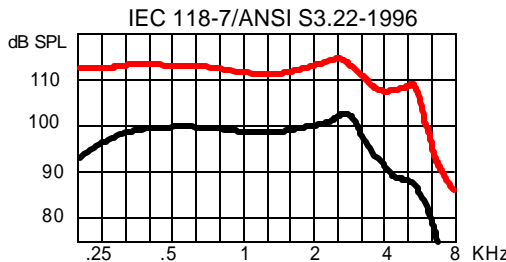
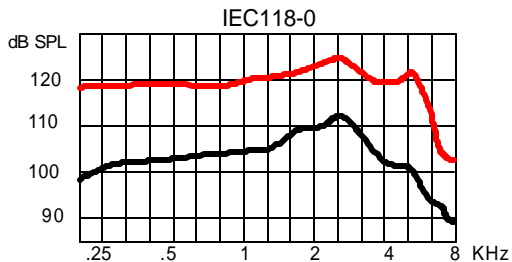
Low Battery Indicator

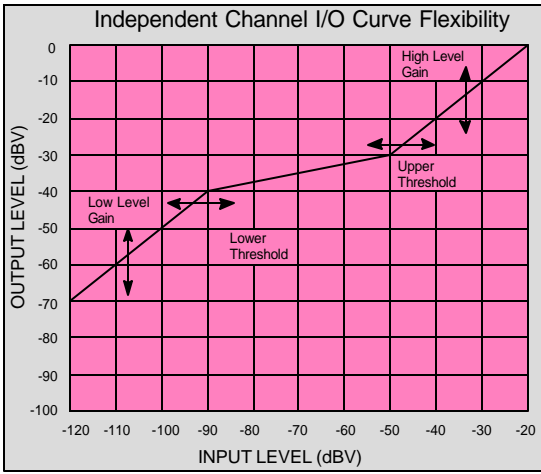
Multi Memory Tone Indicator

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

Performance Data:

		Coupler 2cc IEC 118-7/94	Coupler MZ (7/11) IEC 118-0/94	Coupler 2cc ANSI S3.22-1996	Limits
SATURATION (OSPL 90)	Peak	115	125	115	+/- 3
	F Reference	113	120	113	+/- 3
	HF Average			113	+/- 3
Full-on Gain (Input: 50dB SPL)	Peak	55	62	55	+/- 4
	F Reference	49	58	48	+/- 4
	HF Average			50	+/- 4
Nominal Reference Test Gain (RTG)		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	<4
65 dB SPL in	1600 Hz	%		1	<4
Equivalent Input Noise Level	dB	30	30	30	<33
	dB			30	<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					
HF Average	dB			96	
STS	dB			98	
	dB			1.0	
Supply Current		input dB SPL			
at RTG		mA			
		60	65		
		0.90	0.90	<1.0	
Battery Life		Type 13 Zinc-Air(220mAh)		hrs	
		Type 312 Zinc-Air(110mAh)		hrs	
		240		240	
		120		120	
AGC @ 2KHz		Attack		mS	
		Release		mS	
		60	60	60	
		800	800	800	
				+/-50%	
				+/-50%	
Reference Test Frequency(RTF)		Hz			
		1600		1000	
		1000			

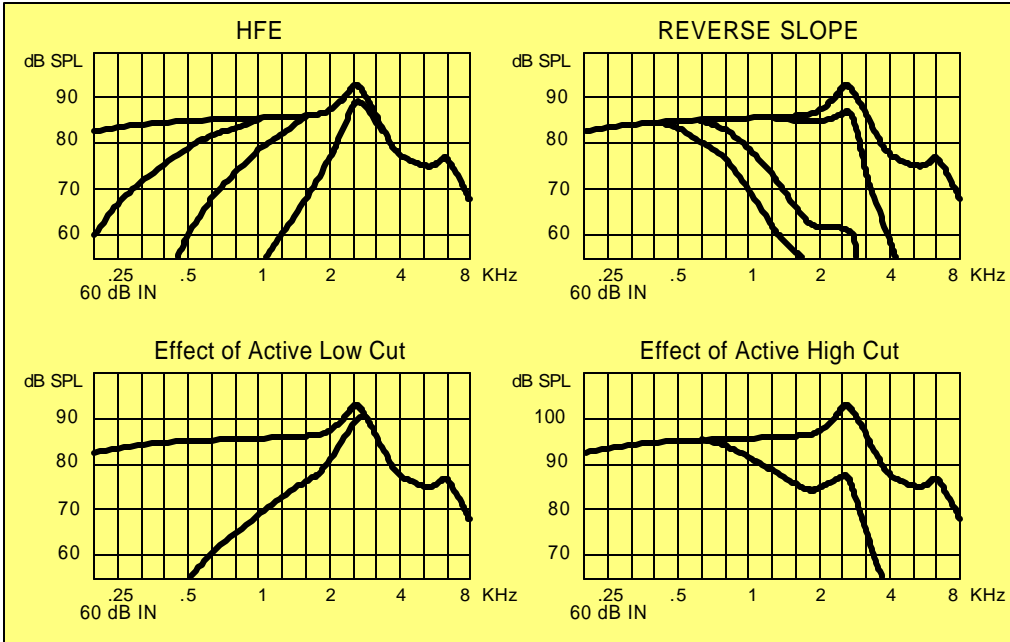




CHANNEL PROCESSING

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

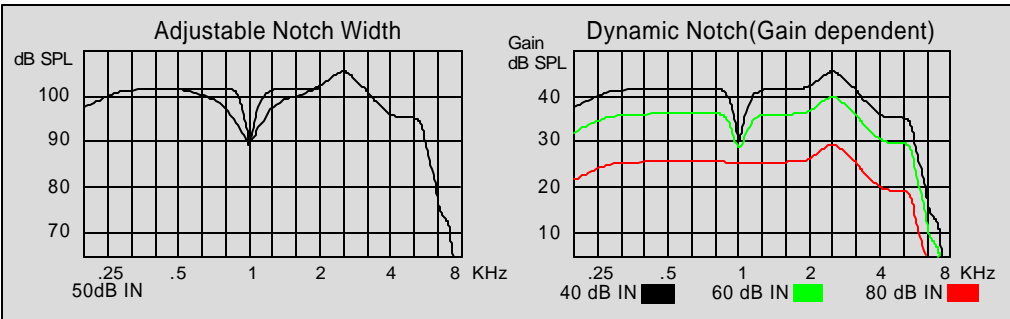


FREQUENCY SHAPING

The response curves to the left show the flexibility you get with the independent AGC channel processing and the adjustable crossover frequency you have with the Paragon 2.

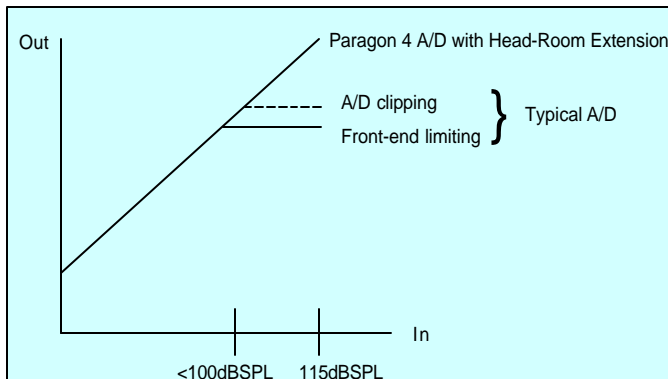
FREQUENCY SHAPING

The response curves to the left show the effect of the active low and the high cut controls.



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.