

Like the Model 8200 Parametric Equalizer, the basic design of the GML 8300 Microphone Pre-amplifier is derived from the input module of the GML Master Recording Console, long regarded as having the finest signal throughput quality of any audio console.

Listening analysis has lead us to believe this the most versatile and musical sounding circuit topology available and that it satisfies the needs or the most demanding professional. This new unit is hand built and calibrated in limited productions quantities using selected components Discrete Bipolar Topology No FET's or IC's in signal path Transformerless Active servos for D.C. stabilization Electrolytic capacitors used only in phantom bypass (may be removed)



### SPECIFICATIONS

#### INPUT

- 1 kOhm balanced input
- 80 dB common mode rejection at 100Hz & 10kHz
- +12.4 dBv maximum before clipping (+ 28 VDC supplies)

#### THROUGHPUT

- 20 volts/microsecond minimum symetrical at 30 dB gain
- Distortion : Maximum SMPTE intermodulation at +20 dBv output level ;
  - 0.0015% at 30 dB gain
  - 0.007% at 70 dB gain
- Effective input noise :
  - < -126.5 dBv with 150 ohm source
  - < -129.5 dBv with 0 ohm source(measurements at 400Hz & 30 KHz, 12 dB/octave high & low-pass filters (ref : 0.775v)
- Frequency response :
  - +0, -0.2db @ 10 Hz & 50 KHz
  - +0, -0.3db @ 1.7 Hz & 260 KHz
- Phase shift : 22 degrees @ 10 Hz & 260 KHz

#### OUTPUT

- +27.4 dBv clipping
- 3mv output D.C. offset (maximum) D.C. servo stabilized
- external power supply :  $\pm 28$  Volts

#### FORM FACTOR

- Number of channels : 4 maximum (2 or 4 on order)
- Clip indicator : +24 dBv  $\pm 0.5$  dB
- Gain : 15 to 70dB in 5dB ( $\pm 0.25$ dB) steps
- Enclosure : 1.75" x 19" rack mounting, 10" deep. Satin grain, black anadized finish
- Front Panel Indicators : 4 red clip LED's, 1 green power LED
- Phantom : 48 volt switchable, 40 ma. available. Each channel currently supplied with standard 6.81 Kohm, 1% resistors.

INSTRUMENTATION: Hewlet Packard 400 FL AC volmeter  
Sound Technology 1710A Distortion Analyzer  
Tektronix 465 Scope and FG504 Function Generator

*For sales and product information:*

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