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## MODEL 2020 HIGH RESOLUTION DISCRETE INPUT CHANNEL

### SPECIFICATIONS\*

#### FORM FACTOR

One channel, multi-input, gain, filter, parametric equalizer, and dynamic range controller

- Inputs: Mic, Line, M/I
- Gain control: -10dB to +70dB, 5dB steps
- Input meter, Phase switch, Phantom power switch
- Filter -- Second-order Butterworth active high-pass filter; 100Hz, flat, 40Hz
- Routing control – EQ/ DYN signal flow, DYN Sidechain access
- EQ section – 4 bands, fully parametric, continuously variable controls
- Dynamics section – GML Series III control architecture; proprietary discrete VCA
- 40-segment tricolor meter, displays true gain through Dynamics section

#### INPUT

Microphone: 1 k balanced, >93dB CMRR, +36.6dBu max input before clipping

Line: 20 k balanced bridging, >92dB CMRR, +36.6dBu max input before clipping

M/I: 1 M unbalanced, +20dBu maximum input before clipping

#### THROUGHPUT

Bandwidth:

-0.1dB / +0.002dB, <10Hz to >30kHz, worst-case

-3dB, >150kHz and <<10Hz, typical

<0.003% Harmonic distortion, 20Hz to 20kHz, typical

<0.005% SMPTE Intermodulation distortion, typical

30v/usec discrete low-noise precision operational amplifiers, GML 9202

No electrolytic interstage or coupling capacitors

Noise:

-80dBu broadband, EQ and DYN engaged, typical

-117dBu EIN, M/I input

-123dBu EIN, Microphone or Line input

-90dB crosstalk, 20Hz to 20kHz, worst case

#### OUTPUT

+26.6 dBu clipping

< 3 mV output offset, stabilized by DC servo correction, direct coupled

Normally wired pin 2 "hot"

#### OTHER

Requires GML Model 9015 external power supply; +/-28 VDC, +/-18 VDC

Separate Ground and Chassis connections at rear

19" W x 3.5" H x 8.5" D rack mount chassis, black anodized aluminum, silver legend

Weight: 11 lbs., approximate; shipping weight may vary

\*GML reserves the right to make changes to these specifications as it deems necessary. Individual unit performance may vary due to environmental influences, manufacturing variations, and component tolerances. Please refer to full Specifications sheet (included in the Model 2020 Owner's Manual) for details.

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