



TM

Bulletin 270

MODEL TGR-340

Audio Gain Rider

Ben Franklin, that father of innovation, would be proud of Moseley today.

When Ben saw a need, he created a solution.

Moseley saw a need for efficiently maintaining audio gain on broadcast program lines and so created the TGR-340.

The Model TGR-340 Audio Gain Rider is designed to automatically ride gain on a program line, providing maximum modulation on a long term basis, with a minimum of audible or measurable byproducts. Simultaneously the program circuits are protected from overload. A switch-defeatable multistage allpass network is provided in increase signal symmetry, a feature especially useful in TV and FM. A recovery-enabling gate freezes the gain-riding activity during pauses in program, preventing background noise from being pumped up (or faded down). A continuously variable control allows a time delay to be added to the AGC recovery for maintenance of short-term dynamic range. Switchable treble AGC is included to prevent overdrive in satellite, STL, tape or other systems using treble pre-emphasis. The transformerless output stage is direct-coupled for preservation of the output waveform. The TGR-340 uses low-noise and FET-input operational amplifiers. Service loops allow inspection without extender cards. Multi-channel (stereo or more) operation is easily accommodated with two line strapping between units.

The TGR-340 joins the legacy of innovation Moseley is building with products responding to today's needs in the broadcast industry.

If Ben Could See Us Now.

If You Didn't Get This From My Site,
Then It Was Stolen From...

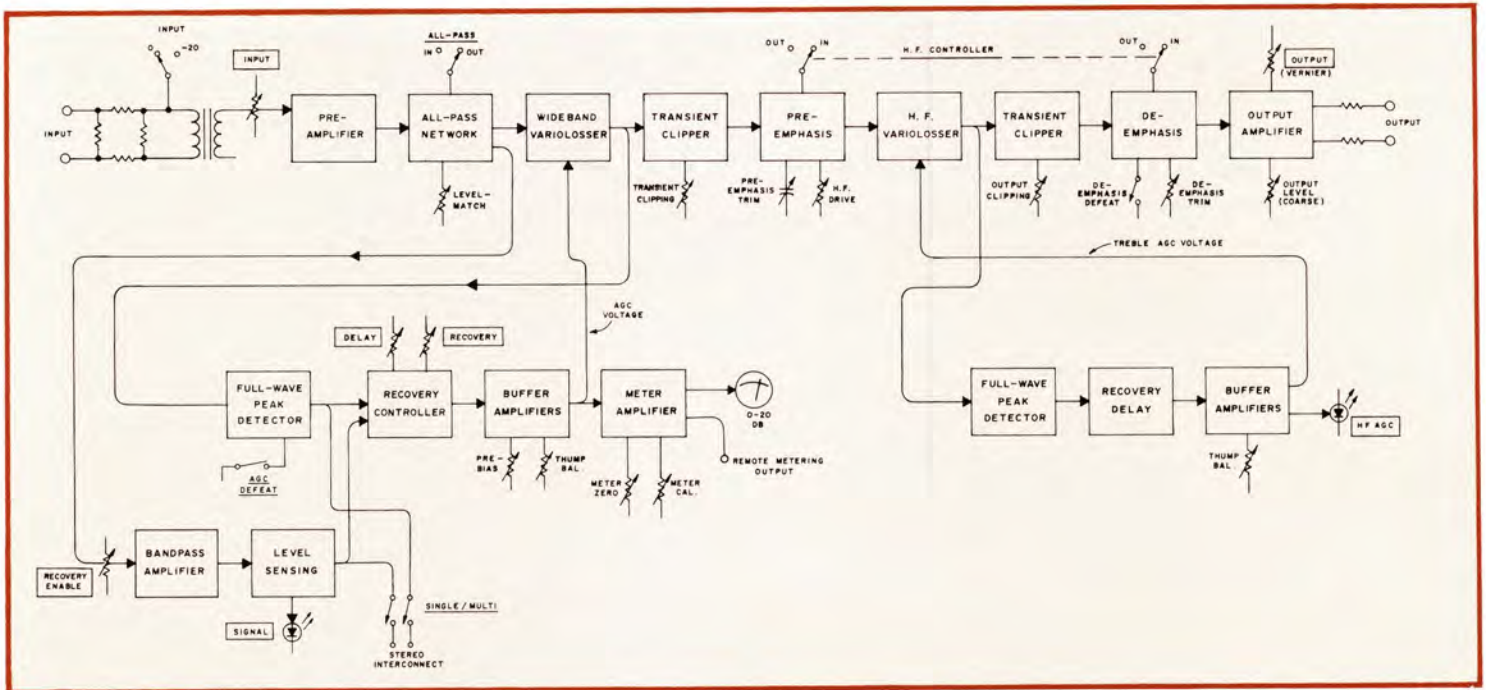
www.SteamPoweredRadio.Com



MOSELEY ASSOCIATES, INC.

A Flow General Company

TGR-340 Audio Gain Rider



SPECIFICATIONS

| | | | |
|--|---|----------------------------|--|
| Input Level | -26 dBm for limiting threshold with input control at maximum; switchable 20 dB input attenuator | Treble AGC Indication | Panel lamp |
| Input Impedance | 600 ohms, $\pm 10\%$, resistive, balanced, floating | Polarity Controller | Three-stage second-order allpass network optimized for male voice; switch-defeatable |
| Output Level | Adjustable up to +18 dBm | Frequency Response | ± 1 dB, 30 Hz to 15 kHz (below treble AGC threshold) |
| Load Impedance | 600 ohms, balanced or unbalanced, transformerless | Harmonic Distortion | Less than 0.3% below thresholds of AGC; less than 0.7% at any frequency (50 Hz to 15 kHz) and any degree of AGC (0 to 20 dB), with any combination of control settings |
| Control (AGC) Range | Greater than 30 dB | Intermodulation Distortion | Less than 0.3% below thresholds of AGC; less than 1% at any degree of AGC (0 to 20 dB), using 60 Hz and 7 kHz 4:1 |
| Control Mechanism | Monolithic semiconductor array | Signal to Noise Ratio | Better than 70 dB, 20 Hz to 20 kHz |
| Input/Output Compression Ratio (Slope) | Greater than 60:1 in dB (30 dB input variation yields 0.5 dB output variation) | Recovery-enable Indicator | Panel Lamp |
| Attack Time (AGC Loop) (System) | 2 milliseconds (AGC Loop) Instantaneous (System) | Metering | Critically-damped movement calibrated (0 to 20 dB) panel meter; external output for remote metering |
| Recovery Time | 200 milliseconds (transients); 5 to 25 seconds on program, adjustable and program-controlled | Temperature Range | -20 to +70° C |
| Recovery-enable Threshold | Adjustable, 0 to 25 dB below AGC threshold | Power Requirements | 120/240 VAC, 50/60 Hz, 10 W |
| Recovery-enable Bandpass | 200 to 4000 Hz; response falls off 12 dB per octave outside this band | Size | 4.5 CM H X 48.4 CM WX 33 CM D (1.75" H) X (19" W) X (13" D) |
| Treble AGC Attack Time | 1 millisecond | Weight: (Approx.) | 3.6 Kg (8 lbs) net 4.5 Kg (10 lbs) shipping |
| Treble AGC Recovery | 5 to 30 milliseconds, program-controlled | | |

Contact any Moseley Associates Sales Representative for further details

Specifications subject to change without notice.



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