



ALPS-1



ALPS-1 Audio Level Processing System

Solving Audio Level problems completely:

... DIGITAL, COST-EFFECTIVE and TAMPER PROOF!

Perceived loudness, dynamic range and peak level; suitable for all situations where some combination of these three must be powerfully yet unobtrusively controlled.

BENEFITS:

- Brings consistency to all programme streams without erasing musical dynamics
- Ends listener annoyance from over-loud segments such as commercials and shouting DJs
- Improves audibility and clarity of programme
- Eliminates overload distortion and damage forever
- Eliminates the inconvenience of unauthorised tampering with front-panel controls
- Maintains programme path **reliability** - fail-safe mode if AC power or PSU fails

APPLICATIONS:

- Sound level control for Radio and Television
- Normalise levels of news booths and unattended studios, ingest points, etc.
- Overload protection for STLs, digital codecs, PA and monitors
- FM broadcast: Networks, Relay from satellite, Community radio & RSLs
- Professional-level audio streaming, archiving and podcasting

FEATURES:

- Minimal feature set; very cost-effective yet fully professional
- Excellent quality - 96kHz and 88.2kHz native modes avoid unnecessary ASRCs
- Complete programme reliability - 'pass-through' relays for analogue and digital paths
- Factory presets deliver exactly the results you need for any application ...fast
- No-tamper front panel (set-up by PC only)
- Bright, Always-Visible LED bargraphs for audio confidence checks
- Low audio latency (2.2 - 4 milliseconds), fast boot-up (<1 second).
- Stereo or Dual-Mono modes



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SPECIFICATIONS

Frequency Response:

DIGITAL-DIGITAL: 20Hz-20kHz +/-0.1dB
ANALOGUE-ANALOGUE: 30Hz-20kHz +/-0.5dB

Noise:

DIGITAL-DIGITAL (rms 20Hz-20kHz): <-117dBFS
ANALOGUE-ANALOGUE: (rms 20Hz-20kHz): <-83dB ref: Limit point +8dBu

Distortion:

DIGITAL-DIGITAL (6dB limiting): <-94dB / 0.002% THD
ANALOGUE-ANALOGUE (6dB limiting): <-74dB / 0.02% THD

Stereo Separation (L/R crosstalk):

DIGITAL-DIGITAL (at 3kHz): <-117dB
ANALOGUE-ANALOGUE (at 3kHz): <-83dB

Inputs:

ANALOGUE: Active balanced, 10k (bridging), standard operating level -6dBu to +14dBu (clip +21dBu)
DIGITAL: AES-3 (XLR); 32, 44.1, 48, 88.2, 96kHz sample rate. 16, 20, or 24 bits.

Outputs:

ANALOGUE: Active true balanced, standard operating level -6dBu to +14dBu
DIGITAL: AES-3 (XLR); full input rate / half rate.

Processing blocks:

Gated AGC: Capture range +/-20dB; maximum positive gain can be set.

Advanced AGC enables faster, programme-dependent operation. Defeatable.

Compressor: Nominal 2:1 slope and 4dB maximum boost of low levels. Defeatable.

Wide-band Limiter: Zero overshoot 1.3ms look-ahead zero clipping. Defeatable.

HF Limiter: Protects 50us or 75us emphasis curve for FM broadcast applications. Defeatable.

Control:

Setup is via PC GUI only. Select a factory preset, modify it, set levels etc, save to Flash memory. USB on front panel, plus RS-232 on rear panel. ASCII Text based command format.

Power:

100 - 230V AC / 5 Watts.

Dimensions & weight:

1-RU: 44 x 482 x 290mm deep / 1.75" x 19" x 11.25" deep. Weight: 1.8kg / 4lbs

Computer Control:

Every processing parameter, including all thresholds and time constants, can be accessed and modified under PC control (GUI included). For full range of panel and remote control options see ALPS-2 and ALPS-3 products.

Warranty:

3 year return-to-base warranty

Approvals:

CE (EMC & LVD), RoHS

