



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 rate conversions
- 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



w: www.audessence.com

t: +44 (0) 330 6600 108

e: sales@audessence.com

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): <-100dB / 0.001% THD
ANALOGUE-ANALOGUE (6dB limiting): <-80dB / 0.01% THD

Stereo Separation (L/R crosstalk):

DIGITAL-DIGITAL (at 3kHz): <-117dB
ANALOGUE-ANALOGUE (at 3kHz): <-82dB

Inputs:

ANALOGUE: Active balanced, 10k (bridging), standard operating level -6dBu to +14dBu (clip +22dBu)
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 +18dBu
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 - 240V AC Nominal (acceptable range 88V to 264V 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 front panel and remote control options see ALPS-2 and ALPS-3 products. For more complete FM processing see our ProCoder range.

Warranty:

3 year return-to-base warranty

Approvals:

CE (EMC & LVD), RoHS

