



# ALPS-2



## Solving Audio Level problems completely: ... FLEXIBLE, TOP-QUALITY and RELIABLE!

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 any programme stream 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 controls
- Maintains programme path reliability - fail-safe mode if AC power or PSU fails

### APPLICATIONS:

- Control levels of Outside Broadcasts, news booths, unattended studios and 'remotes'
- Overload protection for STL, digital codec, PA and monitors
- Normalisation at Ingest and Master Control - done right!
- Sound level control for Television
- FM broadcast: Networks, Relay from satellite, Community radio & RSLs
- Professional-level audio streaming, archiving and podcasting

### FEATURES:

- Top quality; 48-bit (24 bit i/o), 88.2 or 96kHz native-mode, also accepts 32, 44.1, 48kHz
- Factory presets deliver exactly the results you need ...fast
- A properly integrated single-box solution with all features needed for broadcast
- Maintains programme reliability - 'pass-through' relays for analogue and digital paths
- Straightforward, clear and intuitive user interface
- Security system prevents unauthorised tampering
- Bright, Always-Visible LED bargraphs for audio confidence checks
- Low audio latency (2.2 - 4 milliseconds), fast boot-up (<1 second), low power (7.5W)



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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): <-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. 16, 20, or 24 bits.

### Processing blocks:

**Gated AGC:** Capture range +/-20dB; maximum positive gain can be set. Advanced AGC enables faster, programme-dependent operation. Defeatable.  
**Compressor:** Nominal 1.5:1 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.

### Front Panel Control:

**Security:** Password entry. **System:** Stereo or Dual-Mono, set HPF freq. **Presets:** Select one of ten factory preset for specific duties, load to Flash. **Input:** Sample Rate select, Input Gain trim. **AGC:** On/Off, Normal or Advanced, set maximum gain, set slope. **Compressor:** On/Off. **Limiter:** Off /Wideband / Wideband & HF, set drive. **Emphasis:** set time constant, output flat /emphasised. **Output:** Set digital and analogue output ceilings, Set AES output rate. **Display:** Set contrast.

### Power:

100 - 240V AC nominal / 7.5 Watts. (Acceptable voltage range 88 - 264V AC).

### 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 software included). USB (front panel, plus RS-232 (rear panel)). ASCII text-based command format. For full remote control options see our ALPS-3 product.

### Warranty:

3 year return-to-base warranty

### Approvals:

CE (EMC & LVD), RoHS

