AUDIO LEVEL INDICATORS

ESE offers two basic versions of the "Digital" Audio Level (VU) Indicator. Each version has a reference level ("0 dB") adjustment and is optionally available in a rack mount configuration with as many as six units mounted on a single 1 3/4" x 19" panel.

Features:

Accurate

Easy To Read

- Peak or VU Mode
- Simple Installation
- Attractive & Low Cost
- Low Power Consumption

ES-215

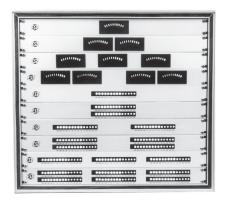




ES-214

The ES-214 (vertical mount) and ES-215 (horizontal & rack mount) are "in-line" VU Indicators which provide a purely digital representation of an audio

signal's loudness. Each has identical circuitry with fourteen LED's (nine green, one yellow and four red) that display loudness at -25, -20, -15, -10, -7, -5, -3, -2, -1, 0, +1, +2, +3 and +4dB. Units are shipped in the Peak mode unless otherwise specified, however, Fast Averaging or Slow Averaging (VU) can be optionally requested. The **ES-215** can be ordered on a rack mount panel with one, two, three, four or six units mounted on the same panel.



The **ES-216** is a small meter-sized unit which simulates the "flying wand" effect of its "analog" counterparts. The unit displays audio levels in ten discrete steps

> (-20, -10, -7, -5, -3, -1, 0, +1, +2 and +3dB) using three red, one yellow and six green LED's. It can be console or panel mounted and is designed to fit into the same opening as many of the commonly used mechanical meters. The rack mount options allow the unit(s) to be mounted one, two, three or four per panel. Either **Peak** or **VU** operation can be specified, (the unit is shipped in the Peak mode unless otherwise specified).

Specifications

ES-214 / ES-215

Indicators:

+4 dB thru -25 dB

Scale: Reference Level "0" Adjustment:

-16 dB to +30 dB 2200 ohms @ max. sensitivity

Input Impedance:

6800 ohms @ +8 dBm "House Level" 10,000 ohms @ min. sensitivity Transformer isolated, balanced bridging

Input Circuit: Frequency Response: Rise Times:

20 - 20 Khz +/- 1 dB (all modes) Peak Mode - < 250 uSec Fast Averaging Mode - < 25 mSec

VU Mode - ~ 300 mSec

Fall Time: Power Requirement:

300 mSec from full scale (all modes) Unregulated +15 to +35 VDC or regulated +12 VDC (220 mA max.) Peak (unless otherwise specified),

Modes of Operation:

Fast Averaging (Apparent Loudness) VU (Slow Averaging) PCB jumper/component value change

Mode Selection: Mechanical:

7" x 1 1/2" x 3 1/2" Deep Options: P, P2, HP2, P3, P4, P6 (ES-215 only)

ES-216

+3 dB thru -20 dB -14 dB to +30 dB

6000 ohms, balanced (any sensitivity)

Transformerless 20 - 20 Khz +/- 1 dB (all modes) Peak Mode - 1 mSec VU Mode - 300 mSec

300 mSec +10 to +24 VDC @ 24 mA (regulated or unregulated) Peak (unless otherwise specified), VU (Slow Averaging)

PCB Jumper 3" x 1.4" x 1.5" Deep P, P2, P3, P4

