

## Analogue TV Modulator Systems

### Product Information

The E2235-7 series of TV modulators provide a highly professional technical performance. Versions are available for all world standards, PAL, SECAM and NTSC. A front panel multifunction display is provided to view the main parameters which are interrogated through a simple keypad on the front panel.



### E2235-01

Three general modulator versions are available.

1. E2235: With mono Sound
2. E2236: With Stereo Sound, (Analogue dual carrier)
3. E2237: With Stereo Sound, (Digital Nicam Sound). A separate additional 1U high unit is provided for this option.

### Specification E2235

#### VIDEO PARAMETERS

<b>Input connector</b>	BNC type connector
<b>Input impedance</b>	Analogue: 1kW p.s.
<b>Input level (<math>\pm 3\text{dB}</math>)</b>	1Vp.p $\pm 3\text{dB}$
<b>Differential gain</b>	$< 1\%$
<b>Differential phase</b>	$< 1^\circ$
<b>IF Output impedance</b>	50 Ohm
<b>IF Nicam</b>	Optional 33.050MHz (other upon request)
<b>Input return loss</b>	$< 0 - 30\text{dB}$
<b>Group delay</b>	$\pm 35\text{ns}$ (within the vision band)
<b>S/N ratio (weighted)</b>	$> 50\text{dB}$ (weighted according to CCIR)
<b>Vision IF</b>	38.9MHz

#### AUDIO PARAMETERS

<b>Input connector</b>	XLR type male connector
<b>Input impedance</b>	600 Ohm (balanced) or $> 5\text{k}\Omega$ (unbalanced) (jumper selectable)
<b>Input level</b>	0dBm
<b>Frequency response (30Hz-15kHz)</b>	$\pm 0.5\text{dB}$
<b>Audio pre-emphasis</b>	50 or 75 $\mu\text{s}$ adjustable
<b>Distortion (30Hz-15kHz)</b>	$< 0.3\%$
<b>S/N ratio (un-weighted)</b>	$> 50\text{dB}$ unweighted for 50kHz deviation
<b>Audio IF</b>	33,4MHz and 33.1578MHz

#### TEMPERATURE

<b>Operating temperature</b>	From $-10^\circ\text{C}$ to $+45^\circ\text{C}$ (Meets ETS 300 019 requirements)
<b>Storage temperature</b>	From $-30^\circ\text{C}$ to $+80^\circ\text{C}$
<b>Maximum relative Humidity</b>	90%max. non condensing
<b>Max Operating Altitude</b>	2500mt. A.s.l.

#### AC POWER REQUIREMENT

115/230VAC single phase;  $\pm 20\%$  or 48VDC

#### DIMENSIONS

500mm (W) x 482mm (D) x 42mm (H)