



Compressor : A full Auto Attack/Release Compressor with variable Threshold and Ratio successfully combines the smoothness of the 'Soft Knee' principle with the precision of a 'Ratio' control. The advantage of this combination is that instead of the onset of compression being sudden at the threshold point the ratio increases over a 10dB input level range until it reaches the ratio set on the front panel control, thus achieving a more natural sounding compression. Selectable manual or fully automatic Attack and Release times dramatically extend the application range and user scope of the *ENK241*. Selecting the 'Auto' mode removes the need for manual adjustment and is particularly valuable when the program being treated does not have predictable or consistent dynamics, often the case when processing a complete mix or a virtuoso bass guitar performance. Under manual control the wide range of adjustment available gives the user the ability to create dynamic effects as well as normal compression.

Peak Level : 'Zero Response Time', 'Zero Overshoot' circuitry : This provides an absolute limit to the peak level of the output signal, adjustable from 0dB to +16dB above system level. When set to the required level, any excessive peaks will be stopped and the gain momentarily decreased if necessary. The 'Zero Response Time' is essential to avoid unpleasant distortion when mastering for CD or sending any signal to digital equipment. Zero Response Time means that the *ENK241* provides complete protection from even the fastest and shortest signal 'spikes' (overloads), making the unit also ideally suited for speaker system protection in sound reinforcement applications.

Metering : Comprehensive bar graph displays give 'at a glance' indications of gain reduction, and output signal level. Gain reduction from 1dB to -30dB is shown simultaneously with signal level from -20dB to +15dB. Other single LEDs indicate function status of Gating Action, Auto Mode, Bypass, Peak Limiting, Stereo Linking, and Power On.

Stereo Link : When processing stereo signals, linking should be used to prevent image shifting. This facility ties both channels together. Using channel 1 (left) as the master channel removes the need to duplicate control settings for both channels.

Bypass : A fully balanced hard-wire bypass connects the input directly to the output allowing signal to pass through the unit with no power applied. In bypass the VU level meter displays the Input signal.

Operating Level : The operating level of the *ENK241* can be instantly switched, independently on each channel, for either +4dBu or -10dBu operation using a rear panel push switch.

Input/Output : The *ENK241* is available with either XLR connections and fully balanced inputs and outputs, or with stereo jack (TRS) connections, fully balanced inputs and single ended outputs.



TECHNICAL SPECIFICATIONS (Measurements taken at +4dBu operating level where applicable)

INPUT IMPEDANCE	20K Ω
MAXIMUM INPUT LEVEL	+20dBu
OUTPUT IMPEDANCE	50 Ω (bal), 100 Ω (unbal)
MAXIMUM OUTPUT LEVEL	+20dBu
BANDWIDTH	<10Hz to 22KHz -1dB

NOISE AT UNITY GAIN with Expander Off

	Wideband	22Hz - 22KHz	CCIR ARM	IEC A	Q-Pk CCIR
AV	-90dB	-95dB	-95dB	-97dB	-84dB
RMS	-88dB	-93dB	-93dB	-95dB	-82dB

DISTORTION

	100Hz	1KHz	10KHz
Unity Gain, +4dBu input	< 0.03%	< 0.02%	< 0.03%
+14dBu input, 10dB Gain Red.	< 0.1%	< 0.1%	< 0.1%

POWER REQUIREMENTS

230Volt at 50-60Hz, 9 Watts

CASE SIZE

482mm (w) x 44mm (h) x 200mm (d)

WEIGHT

3.2 Kg.