F76OX

F760X-N Module

THE F760X COMPEX-LIMITER is an exceptional combination unit, providing all the basic facilities in automatic level control equipment, that balance engineers have discovered to be so vital in the creation of high quality impact programme music. The system provides for maximum flexibility with a minimum of complexity, featuring:

★ SEPERATE PEAK LEVEL LIMITING

with

★ MULTI-RATIO, VARIABLE THRESHOLD COMPRESSOR

and low level gain reduction in the form of an

★ EXPANDER WITH GATE OPTION

Any of the three functions can be used seperately or in combination with either or both of the other sections.
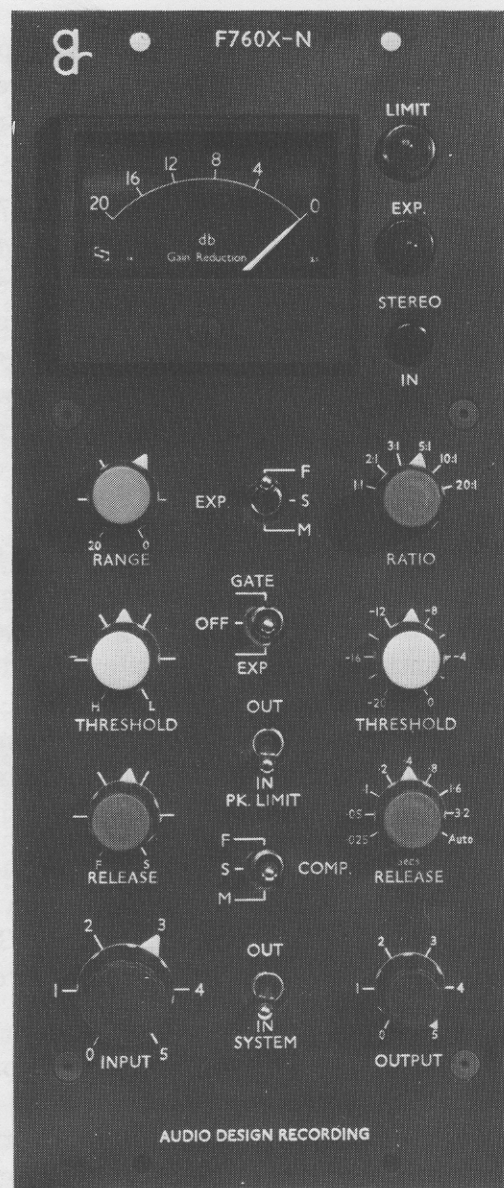
The Peak Level Limiter enables the engineer to optimise use of the channel dynamic range without fear of overload and distortion.   The compressor section can be used on the softer slopes in order to reduce flattening of dynamics (e.g. on vocals) yet still be confident that unexpected rises in input level will be handled by the Limiter.   Effects can be produced in both Compressor and Expander with certainty that the peal level will be controlled.
The threshold of the Limiter, though fixed internally can be attenuated to suite the following channel by the output attenuator.   Being designed to handle peaks, the attack and release parameters of this section are pre-set.

The Compressor section operating below the Limiter provides ratios from 2:1 to 20:1 (limit) whilst the threshold can be varied in 2dB steps, up to 20dB, relative to the peak level limiter.   Thus threshold level and the ratio selected will determine the amount of gain reduction that occurs in the Compressor, prior to the onset of Limiting (see Slope diagram).   Note that a limit slope can be obtained in the compressor with full attack and release options.

A switched release control operates from 25mS to 3.2S with a final 'Automatic' position. In the 'Auto' position a multiple release network causes fast gain change to occur over a small range (about 5dB) prior to the operation of a long release platform.   This position being extremely useful to obviate modulation effects when using considerable compression on balanced programme material, to reduce dynamics and increase mean programme level.

The attack time in the Compressor will determine the amount of peak signal allowed to pass through to the Peak Level Limiter;   three attack options being provided.