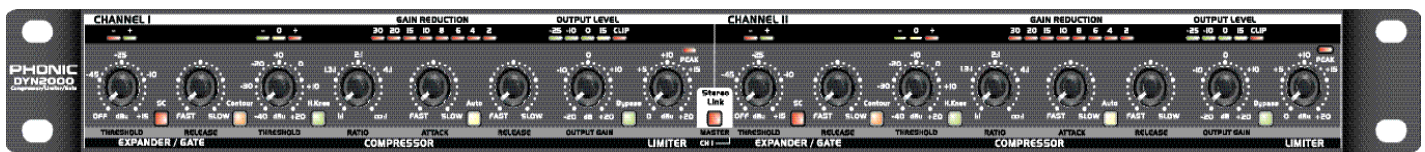


DYN2000

Compressor / Limiter / Gate

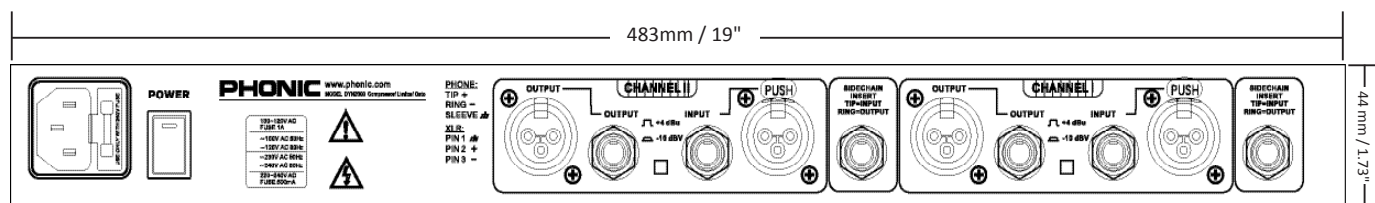


Features

- ▶ Stereo or Dual Mono operation of gating, compression and peak limiting
- ▶ Expander/Gate Circuit with variable release time and +15dBu maximum threshold
- ▶ Hard Knee Selection allows selection between compression curve and the classic Hard Knee curve
- ▶ Low Frequency Shelf (via Contour button) in the Sidechain Path function
- ▶ Limiting - provides control of maximum peak levels at output regardless of other controls
- ▶ Peak Limiter comes after the compression, gating and other circuitry including the output gain
- ▶ Absolute limit for peak excursions before they reach the output
- ▶ True RMS Level Detection senses the power in the program, in a similar way as human hearing does, giving results superior to peak or average detection
- ▶ Bypass Buttons on both channels - comparing the processed and unprocessed signals
- ▶ LED Display for Gain Reduction and output
- ▶ Balanced XLR and 1/4" TRS Input and Output Jacks
- ▶ Separate Sidechain Inserts enable an outboard processor or signal to control compression or gating

Description

The DYN2000 compressor / limiter / gate from Phonic provides extremely musical compression, together with gating capable of completely eliminating unwanted transient sounds. Attack and release controls give complete control of compression to the engineer or artist, enabling the soft- and hard-knee compression to be easily adjusted between minimal – allowing users to smooth out uneven levels – and aggressive peak-limiting. Able to run in dual mono or stereo couple modes, and featuring versatile sidechain functionality, the DYN2000 is the ideal studio companion for all; delivering quality audio performance and reliability synonymous with Phonic products.



Specifications

| | |
|---------------------------|---|
| INPUT | |
| Connector: | 1/4" TRS and XLR, Floating Balanced; XLR: Pin 2 hot Phone: Tip Hot HI |
| Impedance: | >50kΩ balanced, >25kΩ unbalanced |
| Maximum Level: | +24dBu, Balanced or Unbalanced |
| CMRR: | >40dB at 1kHz, typically >55dB |
| SIDECHAIN INSERT | |
| Connector: | 1/4" TRS Phone, Normalled: Ring = Output (send); tip = Input (return) |
| Impedance: | Tip = >10kΩ (Input), Ring = 2kΩ (Output) |
| Maximum Level: | +24dBu |
| OUTPUT | |
| Connector: | 1/4" TRS phone and XLR floating balanced,XLR: Pin 2 and Tip Hi |
| Impedance: | 120Ω balanced, 60Ω unbalanced |
| Maximum Level: | +21dBu,>+20 dBm into 600Ω, balanced or unbalanced |
| Frequency Response: | 20Hz - 20kHz; +0, -0.5dB,Typical 3dB points are 0.35Hz and 110kHz, unity gain |
| Noise: | <-90dBu, 22Hz to 22kHz, no weighting, unity gain |
| THD + N: | Typically <0.04%; Any Amount of Compression Up to 40dB@1kHz |
| SMPTE IMD | Typically <0.08% @ +10dBu (15dB Gain reduction) |
| COMPRESSION | |
| Threshold Range: | -40dBu to +20dBu |
| Threshold Characteristic: | Selectable easy or hard knee |
| Compression Ratio: | Variable; 1:1 to Infinity:1; 60dB Maximum Compression |
| Attack Time: | Variable program-dependent; 3ms to 340ms for 15dB gain reduction |
| Release Time: | Variable program-dependent; 200dB/Sec to 3dB/Sec |
| EXPANDER/GATE | |
| Threshold Range: | OFF to +15dBu |
| Expansion Ratio: | 10:1 |
| Maximum Depth: | >60dB |
| Attack Time: | <500μs (from Maximum Depth) |
| Release Time: | Adjustable, 30ms to 3sec (to 30dB attenuation) |
| SYSTEM | |
| Gain Adjustment Range: | 0dBu to +20dBu |
| Limiter Threshold Range: | Variable; -20dB to +20dB |
| Interchannel Crosstalk | <-80dB, 20Hz to 20kHz |
| Dynamic Range: | >115 dB |
| POWER | |
| Power Consumption: | 15 Watts Maximum |
| Operating Temperature: | 0°C to 45°C (32°C to 113°C) |
| PHYSICAL | |
| Dimensions: | 1.7" x 19" x 7.2" (4.4 cm x 48.2 cm x 18.3 cm) |
| Weight: Net weight: | 5.05 lb (2.29 kg) |
| Shipping weight: | 7.20 lb (3.27 kg) |
| Note: 0dBu = 0.775Vrms | |