

MODEL  
**165A**

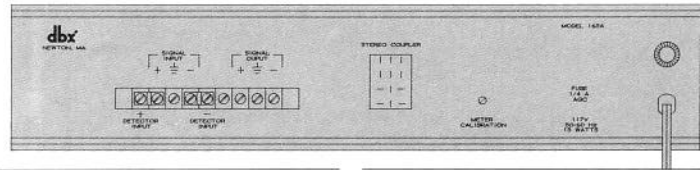
## COMPRESSOR/LIMITER

The 165A is the top of our line. This premier dbx OverEasy compressor/limiter gives the operator complete control of the compression and limiting characteristics. The choice of automatic or manually set attack and release rates provides the ultimate in flexibility. The control design and layout reflect the concern of the sophisticated user for repeatable, precise settings.

The 165A is a classic design that has extensive applications for delicate situations where the compressor/limiter must be very unobtrusive in use – in a final mix, before cutting, final processing before STL or transmitter, or before the main feed in sound reinforcement. In any such critical situation, the 165A provides a smooth, easy transition into compression. And PeakStop "soft clipping" prevents any unwanted signal peaks from getting through.

### FEATURES

- Compression ratio continuously variable from 1:1 to infinity:1
- In automatic mode, compressor attack and release times are determined by program material dynamics. In manual mode, variable attack and release rates allow the 165A to be used as an ultra-fast or slower rms-detecting limiter
- PeakStop circuit prevents unwanted peaks from getting through.
- Separate detector input allows compression preemphasis and other effects
- Each 165A is equipped with matched rms detectors for stereo-strapping operation without the signal-summing errors of conventional strapped compressors
- Analog rms meter is switchable to read input or output levels or the amount of gain reduction over a 30dB range
- Active balanced input for hum and RF rejection
- 24dBv input/output capability.



### FREQUENCY RESPONSE

20Hz – 20kHz  $\pm 0.5$ dB

### THD

0.2%, maximum compression, 1kHz, 0dBv

### NOISE

-90dBv

### MAXIMUM INPUT

+24dBv

### MAXIMUM OUTPUT

+23dBv

### INPUT IMPEDANCE(S)

22k-ohms differential, 11k-ohms unbalanced  
(Detector: 600k-ohms differential, 230 k-ohms unbalanced)

### OUTPUT IMPEDANCE

Low, single-ended, for driving 600ohms or greater

### GAIN

-20 to +20dB

### THRESHOLD RANGE

Compressor: -40 to +10dBv  
PeakStop: -2 to +24dBv

### ATTACK TIMES

Auto: 15ms for 10dB, 5ms for 20dB, 3ms for 30dB  
Manual: Variable from 2.5 $\mu$ s to 1ms per dB

### RELEASE TIMES

Auto: 8ms for 1dB, 80ms for 10dB, 400ms for 50dB; 125dB/s rate  
Manual: Variable from 250 $\mu$ s to 100ms per dB

### MAXIMUM COMPRESSION

Greater than 60dB

### POWER REQUIREMENTS

90-130V (117V model), 50-60Hz; 6W

### DIMENSIONS

3 $\frac{1}{2}$ "h x 19"w x 10"d

### ACCESSORIES

CA-165 stereo-coupling cable for two 165As.