

# Don't Stall!

- Apply Ultimate Confidence

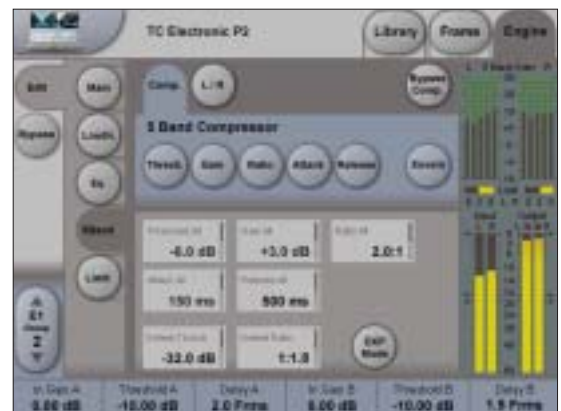


**P2 means confidence with Audio Level and Spectral Balance in Post and Video production. Set and Forget the P2 while enhancing audio quality.**

Single Key Stroke access to International Standard and Custom Presets makes the unit suitable even for an operator not specialized in audio. The front panel and settings are fully lockable, or operator editing may be allowed to a certain degree. With the PC ICON editor (included), Custom Presets can be created by an Audio Expert and made readily available for the daily user. Presets and entire P2 units may quickly be cloned to easily maintain multi-studio environments.



- ▶ Brickwall Limiter complying to NTSC, EBU and SMPTE standards. US/EU level Conversion.
- ▶ Five Band Optimizer, Stereo or Dual Mono mode, Adaptive Wizard Function.
- ▶ Dynamics: Five Band Processor with new TC DXP Detail Enhancement mode, Limiter, and Loudness Controller.
- ▶ Additional Processing: Stereo Enhancer, Alignment Delay, Filters and EQ. All types of processing can be used simultaneously.
- ▶ Digital Interfacing: AES/EBU and S/PDIF, built-in Sample Rate Conversion, external Word-Clock Input. 48 bit internal processing throughout.
- ▶ 24 bit converters scaled from preset to preset in the analog domain for optimum performance at any operating level up to +28dBu.



*With the PC ICON editor, presets can be tailor-made for a specific studio facility or broadcast station.*

**t.c. electronic**  
ULTIMATE SOUND MACHINES

[www.tcelectronic.com](http://www.tcelectronic.com)



AES/EBU & S/PDIF digital I/O's with Outputs always active.

GPI Input for preset changes, Bypass.



The auto-sensing power supply automatically accepts and adjusts itself to voltage supplied.

Balanced analog I/O's with Outputs always active.

Word Clock BNC Input ensures accurate Sample Rate synchronization and asynchronous Sample Rate conversion.

RS232 for PC remote control.

## Technical specifications:

### Digital Inputs and Outputs

Connectors: XLR (AES/EBU)  
RCA Phono (S/PDIF)

Formats: AES/EBU (24 bit),  
S/PDIF (24 bit), EIAJ CP-340, IEC 958

Output Dither: HPF TPDF dither 8-22 bit

Word Clock Input: BNC, 75 ohm, 0.6 to 10 Vpp

Sample Rates: 32 kHz, 44.1 kHz, 48 kHz

Processing Delay: 0.5 ms @ 48 kHz

Additional Delay: 0-400 ms at all sample rates

Frequency Response DIO: DC to 23.9 kHz  $\pm$  0.01 dB @ 48 kHz

### Sample Rate Conversion

Type: Asynchronous

Dynamic Range: 120 dB

THD+N: -106 dB 44.1 to 48 kHz @ 1 kHz, -2 dBFS

Input Rate Range: 31 kHz to 49 kHz

### Analog Inputs

Connectors: XLR balanced (pin 2 hot)

Impedance: 20 kohm (balanced)

Max. Input Level: +28 dBu (balanced)

Min Input Level (for 0 dBFS): -4 dBu (balanced)

A to D Conversion: 24 bit (1 bit, 128 times oversampling)

A to D Delay: 0.8 ms @ 48 kHz

Dynamic Range: >103 dB (unweighted), >106 dB(A)

THD: -95 dB (0.0018 %) @ 1 kHz, -6 dBFS (FS @ +18 dBu)

Frequency Response: 10 Hz to 20 kHz: +0/-0.2 dB

Crosstalk: <-80 dB, 10 Hz to 20 kHz  
typical -100 dB @ 1 kHz

### Analog Outputs

Connectors: XLR balanced (pin 2 hot)

By-pass: Through relay

Impedance: 40 ohm (balanced)

Max. Output Level: +26 dBu (balanced)

Full Scale Output Range: -4 dBu to +26 dBu (balanced)

D to A Conversion: 24 bit (1 bit, 128 times oversampling)

D to A Delay: 0.57 ms @ 48 kHz

Dynamic Range: >100 dB (unweighted), >104 dB(A)

THD: -86 dB (0.005 %) @ 1 kHz, -6 dBFS (FS @ +18 dBu)

Frequency Response: 10 Hz to 20 kHz: +0/-0.5 dB

Crosstalk: <-60 dB, 10 Hz to 20 kHz  
typical -90 dB @ 1 kHz

### EMC

Complies with: EN 55103-1 and EN 55103-2  
FCC part 15, Class B  
CISPR 22, Class B

### Safety

Certified to: IEC 65, EN 60065, UL 1419 and  
CSA E65

### Environment

Operating Temperature: 32° F to 122° F (0° C to 50° C)

Storage Temperature: -22° F to 167° F (-30° C to 70° C)

Humidity: Max. 90% non-condensing

### PCMCIA Interface

Connector: PC Card, 68 pin type 1 cards

Standards: PCMCIA 2.0, JEIDA 4.0

Card Format: Supports up to 2 MB SRAM

### Control Interface

RS232: 9 Pin SUB-D

GPI, Pedal, Fader: 1/4 inch phone jack

### General

Finish: Anodized aluminum face and top plate  
Plated and painted steel chassis

LCD: 56 x 128 dot graphic LCD-display

Dimensions: 19" x 1.75" x 8.2" (483 x 44 x 208 mm)

Weight: 5.2 lb. (2.35 kg)

Mains Voltage: 100 to 240 VAC, 50 to 60 Hz  
(auto-select)

Power Consumption: <20 W

Backup Battery Life: >10 years

### Warranty

Parts and labor: 1 year

**Note:** Due to continuous development and standardization all specifications are subject to change without notice

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