

BSS - TCS-804 2-in/4-out Delay Line



The TCS-804 is a 2-channel dual-tap or single-channel quad-tap digital delay line designed for critical speaker systems displacement and "Delay Towers" distance correction in large arenas.

It can also be used as a sonically transparent, stereo time corrector for disc mastering, transfer or satellite broadcast applications.

The unit features:

- A 105dB usable dynamic range
- Time and distance displays in feet, meters, inches, and milliseconds
- Minimum delay steps of 10 microseconds
- Maximum of 650mS (stereo) or 1.3S (mono), expandable to 1.3S/2.6S
- A 100kHz sampling rate
- 12 non-volatile user programmable memories (no batteries required)
- Master/slaving via MIDI; an electronics security lockout
- Automatic delay-time temperature compensation via an optional probe

Input Section

Impedance

10KOhms, electronically balanced

Max. Input Level

+ 20dBu

Connector

XLR3-31 or equivalent

Output Section

Output

Electronically balanced and floating

Max. Output Level

+20dBu into 600 Ohms

Connector

XLR-32 or equivalent

System Performance

Conversion Method

Dynamic floating window PCM

Frequency Response

+/- 0.5.db , 20Hz-20KHz

Dynamic Range

Typically 105db

Distortion (THD)

Less than 0.03% (20Hz-20KHz + 10dBu)

Group Delay Deviation

+/-7 microsecs (20Hz-20KHz)

Stereo Synchronisation

+/- 0.5 microsecs

User Memory Type

EEPROM, no batteries required

Delay Range

Stereo - 75 microsec - 650 millisec (1.3 Sec optional)

Mono - 75 microsec -1.3 Sec (2.6 Sec optional)

Minimum Step Size

10 microsec (3.4mm at 21 degrees C)

Input Level

-9 to + 20dBu in 1dB steps

Output Gain

UNITY, Adjustable +/-6dB in 1dB steps

Venue Temperature Correction

Manual entry or automatic using BSS probe

Control Interfaces

Remote Program Selection

3 x 4 contact closure matrix via 9-pin subminiature D connector / MIDI IN, THRU, OUT 5-pin 180 degree DIN.

Temperature Probe

1/4" RTS jack for BSS probe

Display

Input Headroom

7 step linear 0db +20db

Parameters

4 digit, plus units/status leds

General

Power Requirements

120/240V sc +10%-20% at 50/60Hz 40VA

Dimensions

482mm x 44mm x 228mm, 19" x 1.75" x9"

Options

Transformer Balancing

Inputs and outputs

Memory Expansion

To 1.3 Sec stereo/2.6 Sec mono

Relay Bypass

Passive failsafe bypass in the event of a power failure or an internal fault

Temperature Probe

Allows automatic temperature compensation accurate to +/- 3 degrees C

Security Cover

Renders the unit tamper proof

Dimension Audio

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