

TCS-804



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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 arena. 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, METRES, 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 electronic security lockout; automatic delay-time temperature compensation via an optional probe. Electrically balanced inputs and outputs. Optional wireless remote control available via FPC-900 REMOTE CORRECTION CONTROLLER. Relay Bypass fitted as standard.

TECHNICAL SPECIFICATION

Input Section

IMPEDANCE
10K Ω , electronically balanced

MAX. INPUT LEVEL
+ 20dBu

CONNECTOR
XLR3-31 or equivalent

Output Section

OUTPUT
Electronically balanced and floating

MAX. OUTPUT LEVEL
+20dBu into >600 Ω

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) <0.03% (20Hz-20KHz + 10dBu)

GROUP DELAY DEVIATION
 $\pm 7\mu$ S (20Hz-20KHz)

STEREO SYNCHRONISATION
 $\pm 0.5\mu$ S

USER MEMORY TYPE
EEPROM, no batteries required.

Parameters

DELAY RANGE
STEREO 75 μ s-650mSec (1.3Sec optional)
MONO 75 μ s-1.3S (2.6S optional)

MINIMUM STEP SIZE
10 μ S (3.4mm at 21 $^{\circ}$ C)

See your local dealer or contact: BSS Audio, Linkside House, Summit Road, Potters Bar, Hertfordshire EN6 3JB. United Kingdom.

*Tel: +44(0)1707 660667 Fax: +44(0)1707 660755
<http://www.bss.co.uk>*

*USA Distribution: Harman Pro North America, 1449 Donelson Pike, Nashville TN 37217, USA.
Tel: (615) 399 2199 Fax: (615) 367 9046*

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INPUT LEVEL
-9 + 20dBu in 1dB steps

SECURITY COVER
renders the unit tamper proof.

OUTPUT GAIN UNITY
Adjustable ± 6 dB in 1dB steps

In keeping with our policy of continued improvement, BSS Audio, reserves the right to alter specifications without further notice. This product was designed developed and produced by BSS Audio, Hertfordshire, England.

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.

A Harman International Company.

MIDI IN, THRU, OUT 5 pin 180° 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" x 11.5".

Options

TRANSFORMER BALANCING
inputs and outputs internal option kits.

MEMORY EXPANSION to 1.3S stereo/2.6s mono.

TEMPERATURE PROBE
allows automatic temperature compensation accurate to + 3°C.

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