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## Commercial Insertion Test Equipment

### TS-201 Test Set

In the cable television commercial insertion environment, if an advertisement doesn't run, the cable system or commercial insertion company loses money. Several electronic devices are used to deliver commercials over a cable television system and failure or intermittent operation of any of these will produce lost revenues.

Typically, troubleshooting involves swapping equipment around to try to find the problem. This can be a time consuming process often resulting in lost commercials, both on the network where

the original problem occurred and on the network from which the equipment was "borrowed" for troubleshooting. If equipment isn't available to swap, if the problems are intermittent, or if the technician needs to drive back to his office to obtain equipment, additional time and revenues will be lost.

Fox Electronics has portable, low cost test instruments to reduce lost revenues, minimize troubleshooting time, enable the technician to quickly find faulty equipment, and eliminate the need to swap components. In addition, these instruments can be used in the studio to edit and verify control tones on commercial insertion tapes or to set audio and video levels in the cable headend.

The TS-201 analyzes the DTMF output of a cue demodulator or videotape with pre-recorded DTMF tones and displays both the tone sequence and highest audio level received. The display latches until reset, so the technician does not need to listen for the network to send tones or worry about missing the tone transmission while performing tests.

The TS-201 includes a serial output port to interface with a printer or a modem and computer and record the tone sequence, highest audio level, and the time received. This information can be printed continuously or up to 100 events can be time stamped and stored for later retrieval.

The features of the TS-201 include:

- Hand-held injected molded case.
- High impedance inputs and outputs for use while the commercial insertion system is on-line.
- Displays the DTMF tone sequence and highest audio level received.
- Sequences of up to eight DTMF tones can be received.



- Interfaces with a printer or modem and computer to provide DTMF sequence, level, and time.
- Stores up to 100 events in internal memory.
- Can be used to monitor and verify DTMF recorded on videotape in the production studio.
- AC adaptor and low battery indicator included

### **Specifications\***

Audio Input Impedance:	10K ohms. balanced
Audio Output Impedance:	10K ohms, balanced (loop from input)
Audio Connector:	Phoenix terminal strip
Data Connector:	RJ-11
Earphone Connector:	3.5" mini phone jack
Power Connector:	3.5" mini phone jack

\*Specifications are subject to change without notice.

### **NOTES:**

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