

Digital Feedback Terminator

Model DFT120



Description

The Bogen DFT120 Digital Feedback Terminator provides high quality recording and playback of audio pages. The DFT120 breaks the acoustical feedback loop created by the telephone handset and paging speaker. The page is first recorded and then played back as soon as the source handset has been put on-hook.

High capacity paging is accomplished by the DFT120's record during playback and page stacking capabilities. User selectable loop start trunk or 4 wire dry loop input interface and selectable 8-ohm or 600-ohm output impedances allow the DFT120 to directly connect to a wide range of customer premise equipment.

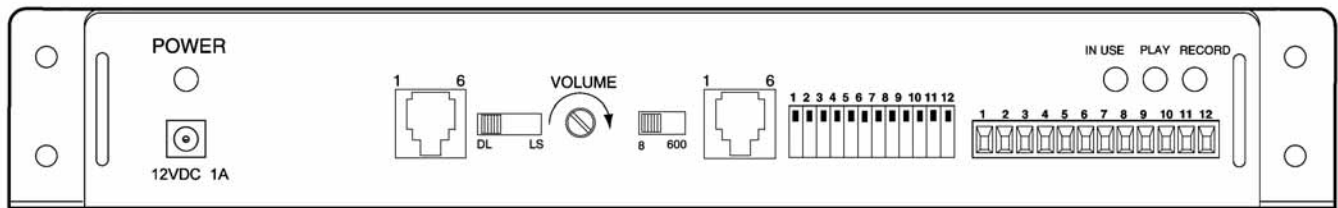
Features

- 240 Seconds of total audio memory
- Record a message while another is being played
- Stack up to 16 messages for playback
- Loop start or dry loop input modes
- High sampling rate for excellent play quality
- Multiple record and playback modes
- Adjustable delay times between messages
- Message abort and stop control available
- Pluggable terminal strip for easy installation
- Regeneration of zone control DTMF tones
- Message repeat function
- Pre-page tone available
- Unit status outputs indicating in-use, play and record states
- Selectable 8- or 600-ohm output impedance
- Transformer isolated audio output
- Output power, 0.125W @ 8 ohms or +4 dBm @ 600 ohms
- Automatic or externally controlled unit operation
- Strips message zone control DTMF tones from the repeat message
- DTMF controlled abort recording function



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Technical Specifications

Audio Memory Capacity:	240 Seconds
Maximum Message Length:	60 Seconds
Message Stacking Capacity:	16 Messages
Audio Sampling:	12 Bit word at 16 kHz
Frequency Response:	100 Hz to 6.8 kHz +/-3 dB
Distortion:	< 1.0% (THD max., typical)
Signal-to-Noise Ratio:	60 dB
Dynamic Range:	60 dB
Audio Input:	
Type —	Loop start trunk or 4-wire dry loop, switch selectable
Connector —	RJ-11 (6 position)
Audio Output:	
Type —	Transformer isolated, unbalanced
Impedance / Power —	8 ohms / 0.125W or 600 ohms / +4 dBm, switch selectable
Connector —	RJ-11 (6 position)
Controls & Switches:	Volume Input type (loop start / dry loop) Output impedance (8- or 600-ohm) Setup DIP switches (bank of 12)
External Control Inputs:	Record, Play, Stop
Status Outputs:	Record, Play, In Use
Status Contact Rating:	24V DC, 1A
LED Status Indicators:	Power, Play, Record, In Use
Protective Fusing:	0.6A, Internal automatic reset
Power Consumption:	12V DC / 350 mA (typical)
Dimensions:	10" W x 1.5" H x 6.5" D
Shipping Weight:	6 lb.



Architect and Engineer Specifications

The feedback termination device shall be a model DFT120, with 240 seconds of memory and the ability to record up to 16 messages while simultaneously playing previously recorded messages. The device's operation shall be capable of automatic or external control. The feedback terminator shall provide a frequency response from 100 Hz to 6.8 kHz +/-3 dB. Distortion shall be less than 1% over its bandwidth. The messages shall have a dynamic range of at least 60 dB and a signal to noise ratio of at least 60 dB.

The feedback terminator shall accommodate both loop start trunks and 4-wire dry loop interfaces, selectable by a slide switch. The input connector style for the interface shall be an RJ-11 type.

Further, the device shall provide an output capable of either 8 ohms @ 0.125W or 600 ohms @ +4 dBm, selectable by slide switch. The output connector style for the interface shall be an RJ-11 type. A control to adjust the output signal level shall be provided.

A bank of DIP switches shall be accessible to set device operating features. The feedback terminator shall have the ability to start recording based on dry loop, loop start, audio triggered, or DTMF activation methods. The device shall be capable of stripping the DTMF tones out

of the recorded message in either the beginning or in the middle of the message. The device shall be able to regenerate DTMF tones in a message and to limit the number of DTMF tones a message can contain before the recording is aborted. The device shall allow for 2, 3, 4, or an unlimited number of DTMF tones in a message. The device shall allow a recording to be aborted by the issuance of 2 DTMF "#" digits in succession.

The selection of a pre-page tone shall be available. The recorded message shall be able to automatically replay and the time duration between message plays shall be selectable as 1, 2, 5, or 10 seconds.

The feedback terminator shall have contact closures that indicate if the unit is in use, playing and/or recording. An internal jumper shall be able to set the contact for normally open or normally closed operation.

The feedback terminator shall be wall mountable and use an external power supply. The power supply shall be UL and CSA listed.

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