

# FlexAlert™ — Module T Common Audio Module

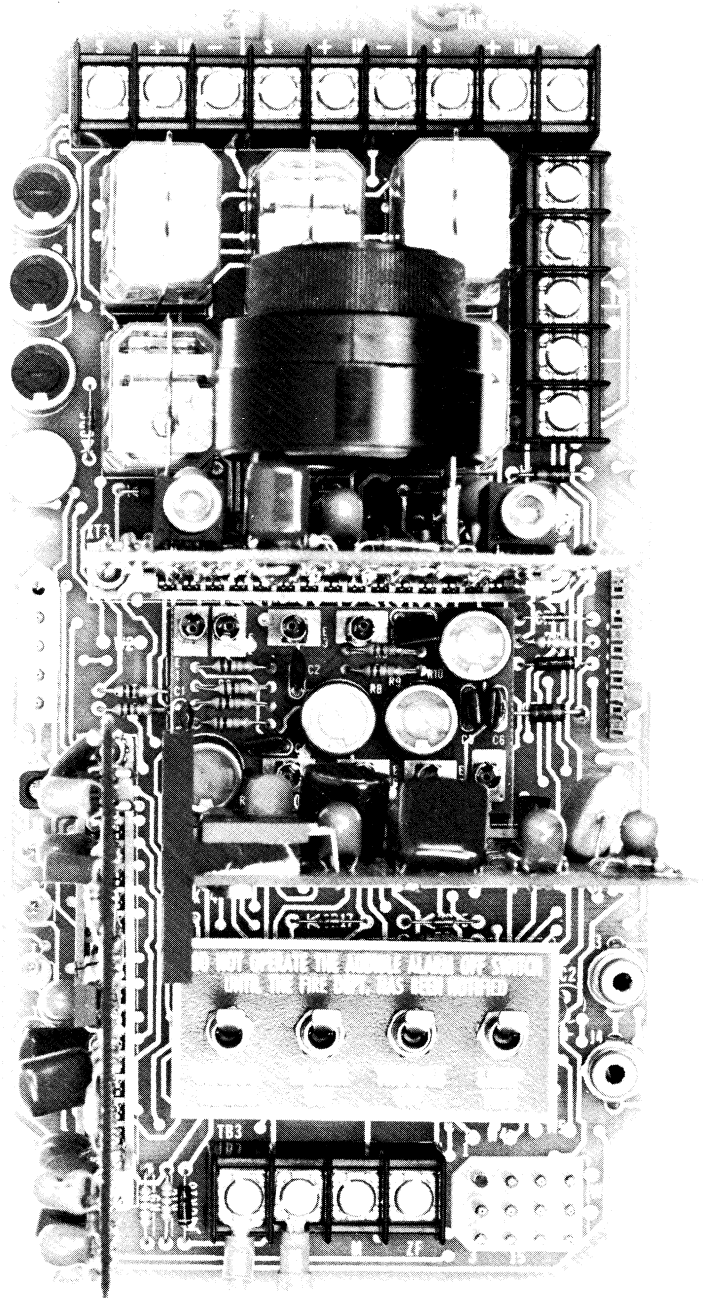
The T Module is the brain of the FlexAlert™ system. It monitors the status of the system, and generates the appropriate response.

It regulates the input power via dual current limited regulators, providing isolation of power for the primary channel and the secondary (standby) channel. A fault causing excessive current draw from the primary channel power source will not disable the secondary channel power source.

An open or short in microphone audio circuit or an open on the keying (push to talk) circuit will light the associated "M" LED and sound the common trouble signal. Microphone also has a level control to provide a well balanced system. Whenever the microphone switch is operated, the tone generators are disabled and the microphone input is connected to both preamplifiers.

Both the primary and the secondary or standby channels are constantly monitored. Each of the redundant tone generators, preamplifiers, and tone control amplifiers is supervised for output degradation to approximately 75% of normal, at which point the associated LED – T1, T2, P1 or P2 will illuminate and the common audible trouble signal will sound. Should the failure occur on the primary operating channel, the system would automatically transfer to the secondary channel.

Model 30010 can be mounted in both the designer and standard cabinets. Model 30699 is mounted on a 19" chassis for compatibility with the Flex 500A enclosures or 19" rack mounting.



**Model 30010**

**Provides:**

- A supervised microphone input circuit, and keying circuit.
- Three auxiliary input circuits
- A supervised input circuit for normally open coding alarm contacts
- Supervisory circuits for redundant, plug-in tone generator cards.
- Supervised redundant pre-amplifiers.
- Supervised redundant tone control amplifiers with bass and treble controls.
- Dual voltage regulators.
- A common audible trouble signal with associated lamp and silencing switch, including ringback feature.
- A normally lighted power-on lamp indicating presence of AC operating power.
- Connectors for module interconnection cables to eliminate interpanel wiring.
- The following panel mounted control switches are also included:

GENERAL ALARM switch connects all speaker circuits to their associated amplifiers and broadcasts the alarm signal throughout the protected premises.

ALARM OFF switch will disable the tone generators and sound the common audible trouble signal. Note that the ALARM OFF switch does not disable the microphone or auxiliary inputs.

TROUBLE OFF switch will silence the trouble signal, but it will not extinguish the trouble lamp.

LAMP TEST switch will illuminate all the trouble LED's. This identifies the source of a trouble signal which cannot be identified because of an LED failure.

- Disarrangement Light Emitting Diodes (L.E.D.'s), visible when door is opened and designed to light when respective troubles occur or when the test switch is operated. These are supplied as follows:

(M) Microphone

(T1) Tone Generator (Primary)

(T2) Tone Generator (Secondary)

(P1) Preamp & Tone Control Amp (Primary)

(P2) Preamp & Tone Control Amp (Secondary)

(C) Supervised Coder Input

This equipment complies with standards of the National Fire Protection Association and requirements of U.L. Standard 864.

- UL Listed
- BSA Listed
- C.S.F.M. 6911-1288:109

**Electrical Characteristics and Requirements**

Operating Input Power:

20 - 40 VDC. One amp max from power supply module P.

Trouble Signal Power:

24 VDC from standby battery (if furnished).

Alternate Trouble Signal Power:

(if there is no standby battery:)

18 to 28 VAC from the secondary of an 8 VA (min.) transformer. Transformer to be powered from the second leg of a 3-wire supply.

Supervisory Current:

Standby power requirements for battery computation is .150 amps.

Trouble Contacts:

Dry SPDT rated @ 2 amp/26VDC or 1 amp/120 VAC resistive.

**Dimensions:**

One module space.

4.5" W x 8.75"H x 4"D

**Ordering Information**

Supplied	Quantity	Part No.	Model No.	Description
<input type="checkbox"/>	_____	30010	T	Common Audio Module with standard chassis
<input type="checkbox"/>	_____	30010-1	W	Common Audio Module less voice circuit, tone controls and auxiliary inputs
<input type="checkbox"/>	_____	30010-2	T	Common Audio Module less chassis
<input type="checkbox"/>	_____	30014	T1	Dual Tone Generator. Slow Whoop 800 to 1200 Hz (T1 can be modified easily in field to provide a 1000 Hz tone).
<input type="checkbox"/>	_____	30017	T2	Dual Tone Generator. Temporal pattern. "CHABA"
<input type="checkbox"/>	_____	30699	P,T,PT	Common Audio Module, Power Supply, Power Transfer Module mounted on 19" chassis.



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UL Listed