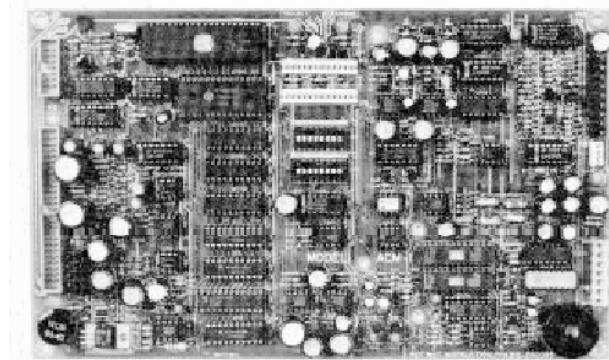# SIEMENS

ACM-1

MXLV Audio Control Module

ENGINEER AND ARCHITECT SPECIFICATIONS

- Central Controller For Audio System

- Local Local Trouble Audible and LED

- Network Communication Diagnostic LED

- Supervised Microprocessor Controlled Signal Generator

- Supervised Microphone Pre-amplifier w/ Backup

- Optional Backup Tone Card

- (UL) Listed, ULC Listed, FM, NYMEA, CSFM, City Of Chicago

Description

The Siemens Building Technologies, Fire Safety Division ACM-1 is an MXLV module which acts as the audio system master controller for MXLV systems. It controls all audio related functions.

The ACM-1 includes a local audible and on-board amber LED for indication of ACM troubles. These troubles will also be indicated on the system display. An on-board amber LED is also supplied for monitoring MXL network polling.

The ACM-1 has a microprocessor controlled signal generator with a complete set of available tones, selectable using MXL system custom programming software. The tones are fully supervised and a connector is provided for the addition of a BTC-1 backup tone generator when required. Tones available are:

> Slow Whoop
> 900 Hz
> 900 Hz @ 120 PPM
> 900 Hz @ 30 PPM
> Chime
> California Code
> Yeow
> Yelp
> Wail
> Hi/Lo
> 2 KHz
> Temporal Code 3
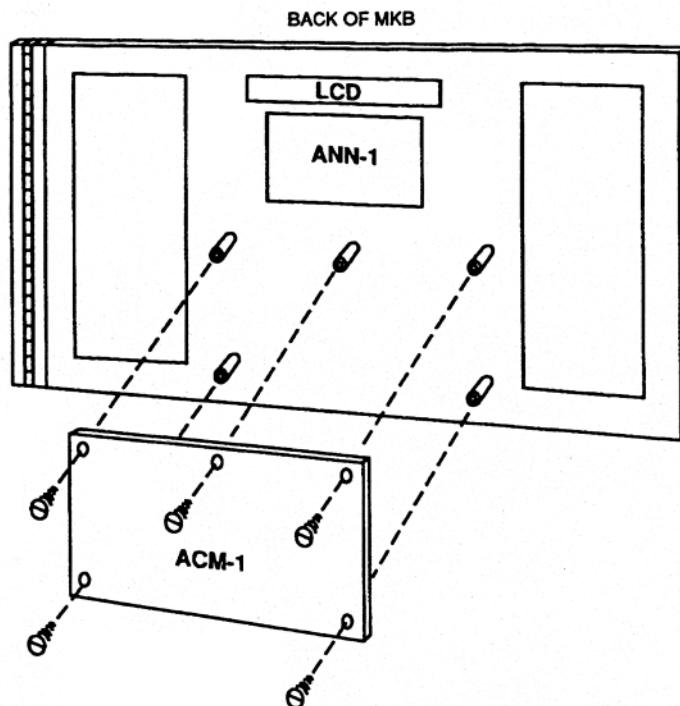> System Zone Coded Audibles

The ACM-1 also includes a microphone preamplifier for use with the MMM-1 microphone master module. The preamplifier uses an automatic gain control circuit to assure distortion free live voice announcements. A backup pre-amplifier is supplied with automatic transfer if the pre-amp fails. When the microphone key switch is pressed, the ACM-1 can send the adjustable length pre-announce tone to selected speaker circuits. The ACM-1 also supervises the microphone, its cable and the keyswitch.

The ACM-1 acts as the controller for all VSM-1 switch modules, VFM-1 fan control modules and VLM-1 annunciator modules. It also controls the warden's page functions as routed from the TMM-1 telephone master module to the paging audio channel. It includes a Sonalert® for audible keystroke feedback and firefighter's call-in signal. The ACM-1 mounts on the rear of the MKB-2 display/keyboard module in the voice command console and occupies one MXL network address. The address is set using a DIP switch on the unit itself. One ACM-1 is required in each voice system.
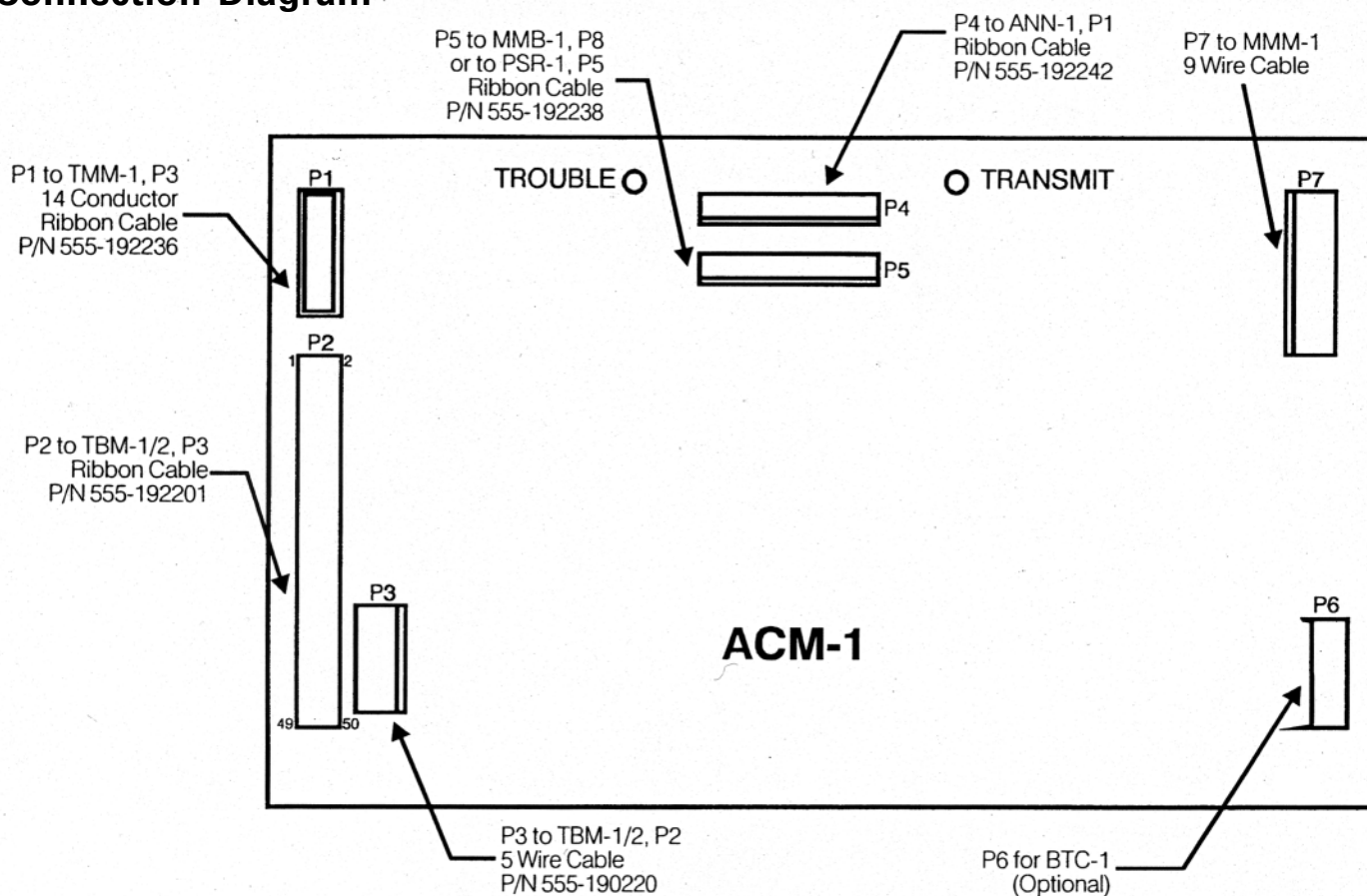
This equipment is approved for operation over the temperature range of 0°C to 49°C.

CATALOG NUMBER **5028**

Ordering Information

Model Number	Description	Part Number
ACM-1	Audio Control Module	500-892082
	Installation Instructions	315-092083

BACK OF MKB

LCD

ANN-1

ACM-1

Connection Diagram

P5 to MMB-1, P8
or to PSR-1, P5
Ribbon Cable
P/N 555-192238

P4 to ANN-1, P1
Ribbon Cable
P/N 555-192242

P7 to MMM-1
9 Wire Cable

P1 to TMM-1, P3
14 Conductor
Ribbon Cable
P/N 555-192236

P1

TROUBLE ○   ○ TRANSMIT

P4

P5

P7

P2

P2 to TBM-1/2, P3
Ribbon Cable
P/N 555-192201

P3

ACM-1

P6

49   50

P3 to TBM-1/2, P2
5 Wire Cable
P/N 555-190220

P6 for BTC-1
(Optional)

Wiring the ACM-1

NOTICE: The use of other than Fire Safety detectors and bases with Fire Safety equipment will be considered a misapplication of Fire Safety equipment and as such voids all warranties either expressed or implied in regard to loss, damage, liabilities and/or service problems.