Signal Communications Corporation
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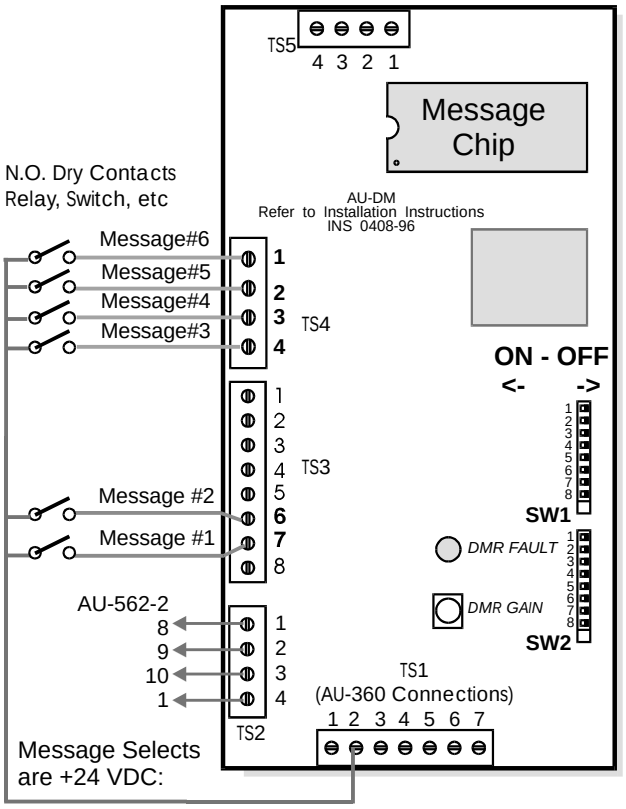
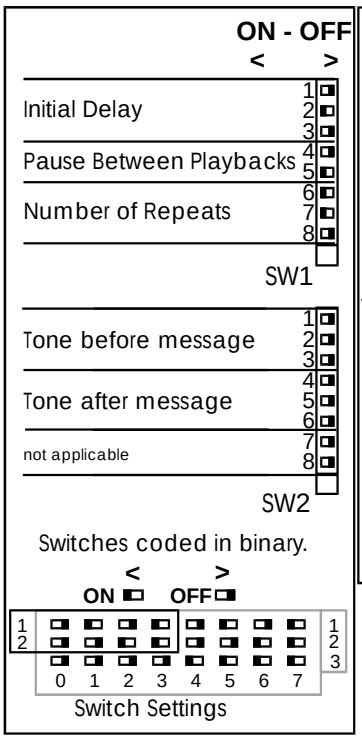
Application Note
AU-DM
Special Applications





Physical position of the switches are:
ON in towards the PCB center
OFF out towards the PCB edge

Initial **Delay**	**Pause** Between Playbacks
0 = No delay	0 = No delay
1 = 3 Seconds	1 = 3 Seconds
2 = **5 Seconds**	2 = **5 Seconds**
3 = 7 Seconds	3 = 7 Seconds
4 = 10 Seconds	
5 = 15 Seconds	
6 = 20 Seconds	
7 = 30 Seconds	

# of **Repeats**	**Tone** with Message
0 = Continuous	0 = **External** Tone generated by AU-360/AU-380
1 = 1 Playback	1 = Fast Siren
2 = 2 Playbacks	2 = Fast Yelp
3 = **3 Playbacks**	3 = Hi-Lo
4 = 4 Playbacks	4 = Horn (300 Hz)
5 = 5 Playbacks	5 = Beep (.5S 850 Hz)
6 = 6 Playbacks	6 = Temporal Pattern
7 = 7 Playbacks	7 = Silence, No Tones

AU-DM: Factory Switch settings (SW1 & SW2)

SW1	SW2
1=OFF \	1=OFF \
2=ON (5s **Delay**)	2=OFF (Ext. **Tone**)
3=OFF /	3=OFF /
4=OFF (5s **Pause**)	4=OFF \
5=ON /	5=OFF (Ext. **Tone**)
6=ON \	6=OFF /
7=ON (3 **Repeats**)	7=OFF
8=OFF /	8=OFF

To select messages

The primary message is automatically selected when the system is put into alarm.
This is the same as selecting message #1.

To select messages (or tones recorded as messages) using external control, +24VDC is applied to the message select lines shown in the layout above.

Pin 2 of TS-1 is a source of power limited +24VDC that can be used.
The +24VDC is connected to the commons of all the switches (relay contacts).
The N.O. contact of the switch (relay) is connected to the message select input.
The message number is also it's priority, ie. #1 having higher precedence than #3.

To change the parameters of the AU-DM

1) *determine* the function to be changed
(Delay, Pause, Repeats, or Tone Select)
2) *refer* to the above table of settings
to find the switches involved and the code number,
3) *move* the switches to the desired settings.

example:
To change the Alert Tone preceding Message "A" from the factory setting of ' **Slow Whoop** ' to the ' **Temporal Pattern** ':

Move Both SW2-2 and SW2-3 from OFF to ON.

This is found in the 'Tone with Message' table above.
Temporal Pattern is a code 6, on SW2, switches 1,2,and 3.
In binary that is 011 or OFF, ON, ON with respect to our switches.

To connect AU-562-2 Remote Mic

On AU-DM's equipt with the TS-2 connector.
Connect the Remote Mic's 4 wires to the Connector as shown above.
TS2-4 can also be used as a source of power-limited +24VDC to power the Remote Mic, and/or connect to the commons of the remote Message / Tone Selection switches (relays).

To change the Message Chip of the AU-DM

1) *remove* the power from the system.
2) *locate* the Message Chip on the board (upper Right corner).
3) *remove* the original chip (pry out with small screwdriver).
4) *align* the new chip, notch (pin 1) on the left.
5) *press* the new chip into the socket firmly-slowly.
6) *re-apply* the power,
the yellow DMR-Fault light should flash on, then go off.
7) *test* the new messages.

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Application Note
AU-DM Connections

The AU-DM is intended for use as a 'Digital Message Repeater' in conjuction with an AU-360 Series Voice Evacuation module. When used there, the only connections generally needed are the TS1 connections, and those are wired by the factory to the AU-360 module.
For other applications, this page will provide the connection details that will allow the AU-DM's use in a 'non-standard' situation.