Velocity
DETECTION OVER TIME

Description

The ZT-MNS-70V-XFMR (70 Volt Output) Module converts the MNS-100's 25VRMS speaker output to 70VRMS. Use of 70VRMS for longer wire runs, results in less loss of output level.

The small enclosure is mounted near the MNS-100 cabinet.

Five conductors are used for the connections of the Module to the MNS-100 main circuit board.

Full output power and active supervision of the speaker circuits are maintained using the specifically designed circuitry in the MNS-70V-Xfmr.

Specifications

Input: 25VRMS 100Watts
Output: 70VRMS 100Watts

Connections: 5-Screw terminal block,
              18 to 12AWG
              300Volt rated wire
              Power-Limited - Not supervised

Physical:
Size: 7-1/4"w x 8-1/4"h x 3-3/4"d
Weight: 6 lbs
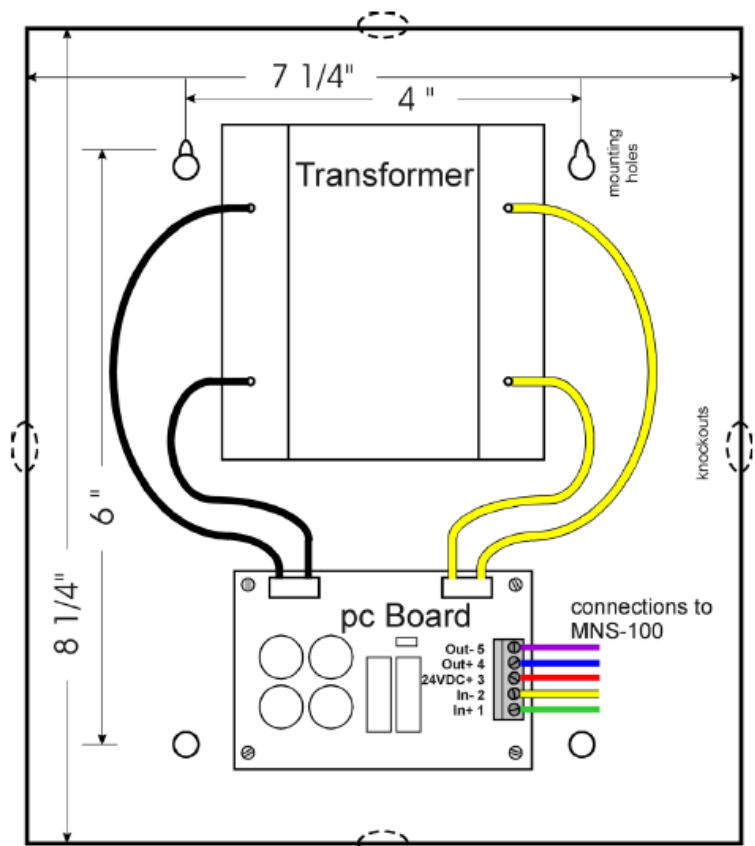
System Installation

The ZT-MNS-70V-XFMR Module mounts to the wall near the ZT-MNS-100BAS, or APB) cabinet.

There are no user controls inside the cabinet; it can be mounted away from the MNS-100, but must be in the same room, and connected with conduit to the MNS-100.

There are four mounting holes in the cabinet, with the top two key-holed. Use fasteners and hardware of the appropriate size to support the enclosure and the module's 6 pound weight.
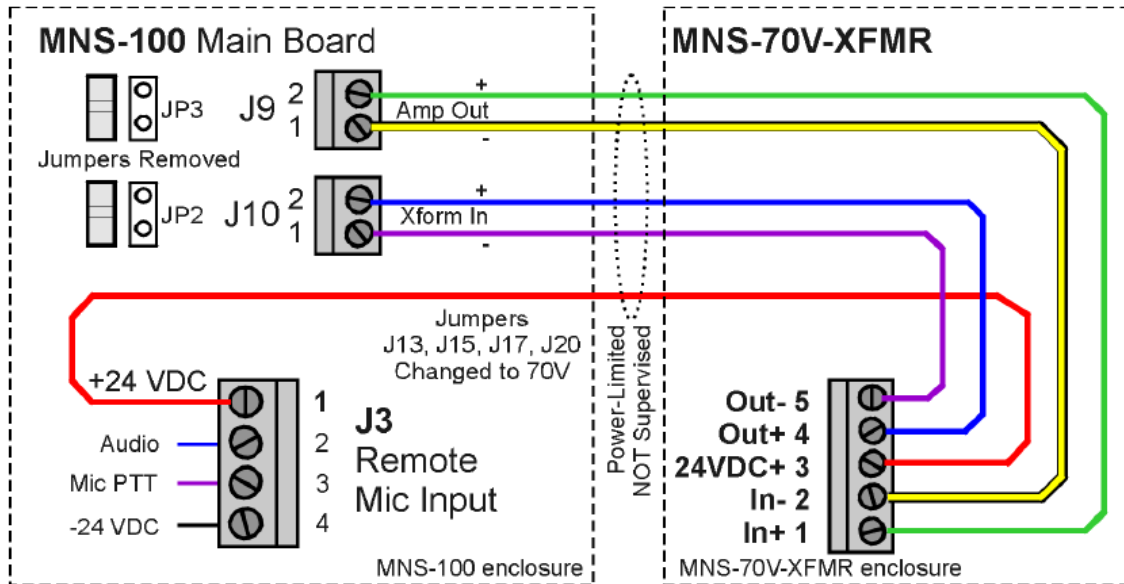
There are four knock-outs in the enclosure for wiring access. The bottom or sides are recommended.

It is intended for indoor, dry locations only, with an environment of 32 to 120 degrees F, and 90% humidity non-condensing maximum. Care must be taken to avoid water infiltration or condensation. Do not mount directly on an exterior wall that could enhance condensation, use of a back board or rails is recommended.
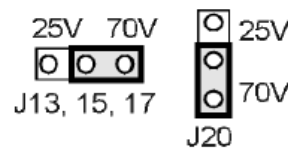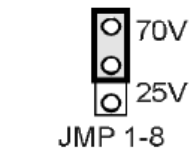
Connections

There are only 5-wires needed to connect the ZT-MNS-70V-Xform to the MNS-100.
One pair for input, one pair for output and one 24VDC power connection.

	MNS-100	MNS-70V
In+	J9-2	1
In-	J9-1	2
+24	J3-1	3
Out+	J10-2	4
Out-	J10-1	5

It is important to be sure the J10 pin 2 is connected to the Out+ (4).
In addition to the wire connections, the MNS-100 main Board must be configured for the 70 VRMS output.
• Jumpers JP2 and JP3, (near the J9 and J10) connectors **MUST BE removed** and stored.

• J13, J15, J17 and J20 are moved from the 25V pins to the 70V pins

See ZT-MNS-100BAS Installation Manual;
Section 6 - Optional Connections, and
Section 8.2.2 - Optional Configuration Jumpers' for details (Shown in the 70V settings above)

If the MNS-8-Zone expander board is installed then the JMP1 to JMP8 jumpers are also moved to 70V.
When the MNS-70V module is used with an Audio Power Booster panel (MNS-100APB), the jumper on the input of the Booster panel J7 must be removed.

Limited Warranty