

# **ATU-8 / ARU-478**

## **ALARM TRANSMITTING / RECEIVING UNIT**

These devices transmit and receive alarm and control signals encoded on video in coaxial cable, twisted pair wire, fiber optic and wireless applications. You can insert your alarm and control signals anywhere a video signal is being used for CCTV or Broadcast TV. Alarm and control signals may be carried over any distance by the video signal. The unit provides video when no video is present to maintain alarm continuity.

The ATU-8 ALARM TRANSMITTING UNIT and the ARU-478 ALARM RECEIVING UNIT together make up an 8 channel alarm and control Superhighway which can provide up to 160 alarm and control channels on any one video signal. The alarm and control signals are inserted into the Vertical Interval of the video signal so that they will not interfere with the picture. When the video signal is recorded, the alarm and control information is also recorded and can be recalled at play-back. Alarm and control signals will be correlated with the video events.

Each pair of ATU-8 / ARU-478 will transmit 8 alarms. Twenty sets of units may be connected to any one video channel, allowing 160 alarms to be transmitted on one coaxial cable. The operating channel can be set by the user in the field with the internal program jumper jacks.

A system alarm will operate upon loss of power to either terminal or loss of transmission path (cable cut). In the event of power failure the video through-put is not interrupted. An internal video sync generator takes over and maintains continuous alarm system operation in the event of video signal failure.

Contact closures to the ATU-8 input will be repeated as contact closures at the ARU-478 output.

The ATU-8 is housed in black ABS enclosure that has a UL flame rating of 94-VO and is powered by a 24VAC power supply. The system has provisions for battery back-up and LED power indicator lights to help installation.

The ARU-478 is a card that fits into the RMS400 Mainframe. Nine ARU-478's will slide into one RMS400 Mainframe. The RMS400 Mainframe is three standard Rack Units high (3 RU) and 19" wide. It is equipped with dual redundant power sources and will hold any mix of FM SYSTEMS, INC. 400 series products.

**ATU-8  
ALARM TRANSMITTING UNIT**

**ALARM INPUT**

Channels  
Connector  
Alarm Sense  
Maximum Loop Resistance

**SPECIFICATIONS**

8  
20 Pos. Screw Terminal  
Contact closure (Loop)  
1K Ohm  
(Specify if Supervised)

**VIDEO INPUT / OUTPUT**

Standard  
No Video  
Impedance  
Connectors  
Video-On Indicator  
Internal Video Generator

NTSC (Color or B/W)  
Internal Video Generator  
Hi-Z Video loop through  
2 BNC (female) Standard  
L.E.D. Indicator\Flasher  
Automatic on Video Loss

**MECHANICAL**

Size  
Power  
Battery

5.50"L X 4.3"W X 3.0"D  
24 VAC 325 mA  
24 VDC Not Included

**ARU-478  
ALARM RECEIVING UNIT**

**ALARM OUTPUT**

Channels  
Connector  
Alarm Report  
Alarm Indicator  
System Alarm Indicator

**SPECIFICATION**

8  
20 Pos.Screw Terminal  
A Form Relay 1 Amp Max.  
8 L.E.D. Relay Indicators  
L.E.D. Relay Indicator

**VIDEO INPUT / OUTPUT**

Standard  
Impedance  
Connector

NTSC (Color or B/W)  
Hi-Z Video loop through  
2 BNC (female) Standard

**MECHANICAL**

Power  
Power Indicator  
Card

+/- 12 VDC 200 mA  
L.E.D. Indicator  
Fits in one RMS400 Slot

ARU478.SPC