

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