

## Audio System For Dukane & Compatible 25V Intercom Systems

### FEATURES:

- Bi-directional Audio and Contact Closure
- Diagnostics: DC Power, Optical Presence
- Voice Operated (VOX) Transmission
- FM Modulated Audio

### SPECIFICATIONS:

#### Audio:

Input/Output .....25V compatible  
 Bandwidth ..... 300 Hz to 10 KHz  
 THD @ 1 KHz ..... 2 %  
 SNR ..... 50 dB  
 Connector ..... 5 Pin Screw Terminal

#### Call-In Contact Closure:

Input ..... Switch Closure to Ground  
 Output ..... Dry Contact  
 Response Time ..... .2 ms  
 Maximum Voltage ..... 100 VDC or Peak AC  
 Maximum Current ..... 0.5 amp  
 Connector ..... 5 Pin Screw Terminal

#### Optical

Fiber (Multimode) ..... 50/125 or 62/125 um  
 Wavelength ..... 850nm/1310 nm  
 Loss Budget 62um ..... 12 dB  
 Loss Budget 50um ..... 9 dB  
 Connector ..... ST

Fiber (Singlemode) ..... 9/125 um  
 Wavelength ..... 1310/1550 nm  
 Loss Budget ..... 20 dB  
 Connector ..... FC

#### Temperature (Operating):

0 °C to +60 °C, non-condensing

#### Power Supply:

Module : 12Vdc (AFI Part# PS-12D)  
 Rack Card (See AFI Part #: SR-20/2)

#### Size:

Module – 8 1/8" x 4 1/8" x 1 1/8"  
 Rack Card – 6 1/2" x 1" x 5"

#### Ordering information:

##### Multimode

MT-89D-12VDC Module Transmitter  
 RT-89D Rack Card Transmitter  
 MR-89D-12VDC Module Receiver  
 RR-89D Rack Card Receiver

##### Singlemode

MT-89D-12VDC-SL Module Transmitter  
 RT-89D-SL Rack Card Transmitter  
 MR-89D-12VDC-SL Module Receiver  
 RR-89D-SL Rack Card Receiver



The American Fibertek Series 89D fiber optic link is designed to interface with the Dukane STARCall and compatible 25V intercom systems. The Series 89D transmits and receives the intercom signals using either a multimode or singlemode fiber. Diagnostic indicators provide a quick visual indication of system status.

Equipment may be ordered as stand alone modules or rack cards that are mounted in SR-20/2 or SR-20H/2 (for redundant power supplies) American Fibertek Card Cages.

