



DATASHEET

Intercom System

P/N
560-00931-000



This device is an Audio distribution system for centralization and distribution of audio band communication. Its main features are listed below:

- Centralization of Operative Ring Terminations without Switching Unit support;
- Centralization of up to 30 Terminations;
- No Software configuration needed;
- Digital sampling transformation of Communications;
- Optoisolated signaling Inputs and Outputs for Radio Terminal terminations are provided, for PTT control and status information reception of ON, Ready and BackPTT from Radio or Modem;
- High redundancy obtained through the implementation of two concentric Rings. In case of fault of a communication line, the data packets are automatically sent on the opposite Ring;
- Thanks to the digital communications it is possible to make conferences without any limitation on two separate conference lines;
- Up to 200 meter length of communication cables between any two adjacent terminals;
- Up to 50 meter length of power supply cable with more than 10 User Interfaces.

<u>TECHNICAL SPECIFICATIONS</u>	<u>TECHNICAL SPECIFICATIONS FOR SINGLE TERMINAL UNIT</u>
Primary supply : 110-220 Vac with MRCU-05 power supply 21-28Vdc 1A/UT, on RT without MRCU-05	Audio channel in Headphones : Up to 5 simultaneous Audio channels
Network characteristics : 1 redundant digital communication ring	Speaker audio channels : 1 Audio Channel
Maximum number of Users : Up to 30, including radio interfaces	Conference channels : All users on 2 distinct channels
Digital communication mode : E1/CEPT	Connection to Radio Terminal : All Terminal Users contemporary in RX, 1 PTT at a time with automatic exclusion in TX
Data bandwidth : 2 Mbit/s	Output amplification on Headphones : + 85 dB
Digital encoding : HDB3 E1	Microphone Input level : -20 dBm/600 Ohm , -15 dBm Max
Interconnections for each ring : Tx: AWG 24 twisted couples Rx: AWG 24 twisted couples	Speaker Output : 4 W
A/D – D/A Conversion : PCM std.	
Radio interface application in TX-RX : All users, Autoexclusion PTT in OR 1 channel at a time	
Maximum Ring length for data : 200 mt for data signal between two Users/Radios	
Maximum Ring length for power supply : 100 mt total for AWG-24 with: n°1 MRCU-05 and n°10 MRCU-01 Greater lengths with: n°2 + MRCU-05	