

RADIO COMMUNICATIONS SYSTEM that uses LAN, WAN or Internet as infrastructure



The Communications System for Direct Voice over IP (VoIP) connections is a system designed to support a system configuration of up to 4 Dispatch Terminals of the type TE10-39/3 to be interconnected to up to 4 Radio Base Stations each connected to the IP Network through a Base Station Controller of the type COM53.

The IHM Direct VoIP System is established without the use of a separate communications switch or a Gate keeper PC. This is avoided by making use of Static IP addresses. The system is therefore easy to install even though it is equipped with a lot of advanced communications facilities.



Mission Critical Communications Solutions

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As IP network connection becomes cheaper and more reliable, demands for using IP technology in conventional radio communications system rises. IHM has therefore developed a series of new IP enabled products for professional communications.

All the products are using a UDP protocol for VoIP carrying high quality audio, connection control signals and radio signalling protocols. The UDP protocol ensures protection against illegal use, virus attacks etc.



COM53 is a base station controller, including a number of features for select-5 or carrier controlled repeater function, I/O control and serial data (RS232).

Used in connection with a command and control system from IHM it even supports both Voice and Pocsag modulation in one and the same base station (IHM-POCSAG).

The COM53 runs on 12V DC provided by the Base Station Power Supply.

The COM53 holds the below listed interfaces:

- 2 x Base Station interfaces
- 2 x RS232 serial ports (transparent)
- 5 x digital inputs
- 6 x digital outputs



TE10-39/3 Radio Dispatch Terminal has been designed to provide control of up to 4 Radio Base Stations at the same time. The Dispatch Terminal is equipped with push buttons for selection of Monitoring of the communication conducted on the radio channel as well as push buttons for switching the Base Station transmitter "ON" and thereby make it a part of the communications group.

It is possible to conduct transmissions on one or more channels at the same time by pushing only one PTT button on the Dispatch Terminal.

The TE10-39/3 Radio Dispatch Terminal is equipped with an internal Loudspeaker in which all Audio signals from all the Receivers of the Radio Base Stations selected for Monitoring will be summarized with one another in the Dispatcher Terminal and all of these signals will be heard in the loudspeaker simultaneously.

Communications can besides using the Gooseneck microphone and PTT button be conducted using an external Desktop microphone, headset & foot operated PTT or microtelephone (handset).

The TE10-39/3 supports all standard CCIR/ZVEI tone signalling systems.



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