Remote Control Station 400087-42

The 400087-42 is a PC based device allowing remote control of the DF2100 Receiver via the phone lines.
It accepts the 4 wire twisted pair on one side and RS-232 link on the other.
The twisted pair is usually referred to as a phone line but it may be somewhat confusing as to what kind of interface it really is. The modem does not have a typical -48V DC 2-wire telephone interface.
It can be ordered as such (400087-42 -T) but it is very rarely used.
In a typical application the 2 pairs (transmit and receive) connect the DF Receiver and the Audio Data Modem at the Remote Control Station. The modem converts an FSK signal coming from the DF2100 into RS-232 and sends it to the PC .
The control commands from the Remote Console are sent as an RS-232 data to the modem.
The modem converts the data to FSK and forwards it to the DF2100 Receiver via the phone line.
In addition the audio from the DF2100 Receiver is sent along with data and played on PC speakers.
At the Remote site the modem splits data and audio.
The communication is full duplex.
The 400087-42 consists of the PC with preloaded software DF2100S P/N 9000236-62.
The position triangulation software package DF2100P is optional.
The range of this interface usually 2-3 miles but it can be extended with use of additional hardware.
In order to be able to use the 400087-42 Remote the DF2100 has to have the Audio Modem (A10) and Data Modem (A11) boards installed.
If they are not they should be purchased along with the 400087-42.

The corresponding P/N are:
- DF2100 Audio Modem Board Assembly A10   400060-59-1
- DF2100 Data   Modem Board Assembly A11   400060-60-1
- 400087-42 Audio Modem incorporated inside PC

 Typical application of the Remote Control Station is shown below:

phone line

DF2100

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