Technical Support
Bulletin Nr.17 – ModemOverIP

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Introduction

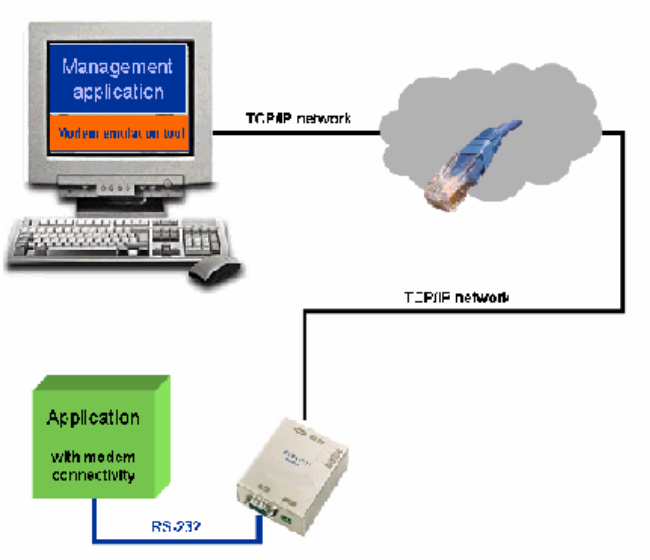
This bulletin describes the characteristic of the Viola modem and its main applications, in addition to explaining how to use this type of modem with a Televis Compact supervision and monitoring system.

Characteristics and applications of the Viola modem

A Viola modem is an Over IP modem that can be used as alternative to standard and GSM modems to allow remote management operations to be carried out with a standard IP address.
Over IP modems can substantially be used to convert standard communications into TCP/IP and Ethernet communications, thus significantly reducing activation and management costs.
Over IP modems also implement all handshake commands that are typical of PSTN and GSM modems, thus enabling existing applications to be easily replaced.

Main characteristics
It can be used as alternative to RS-232 PSTN / GSM modems
It enables TCP/IP communications on LAN, WAN and DSL networks
It is supplied with a software tool that enables to emulate several modems on several MS Windows systems

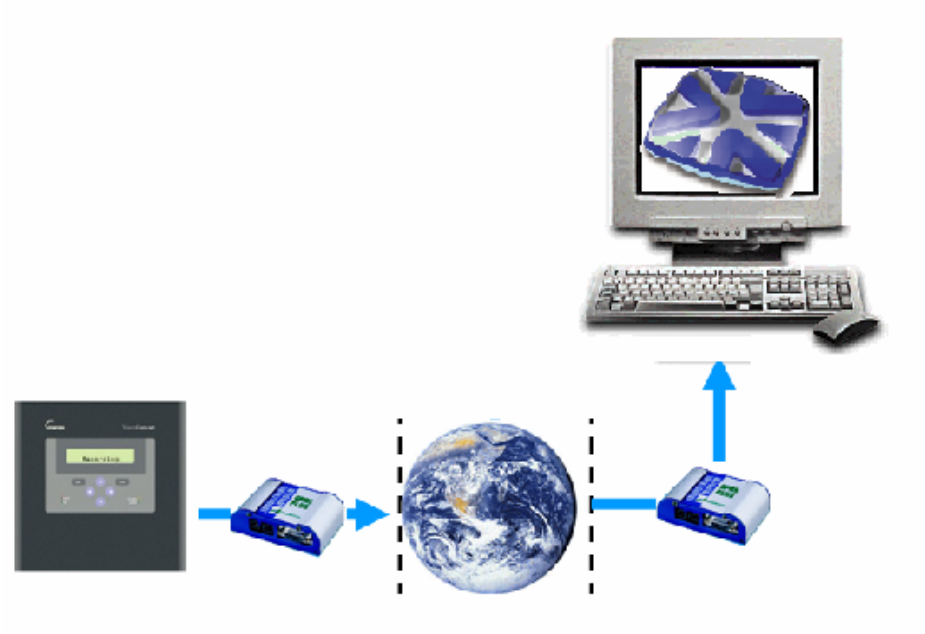
Application diagram:



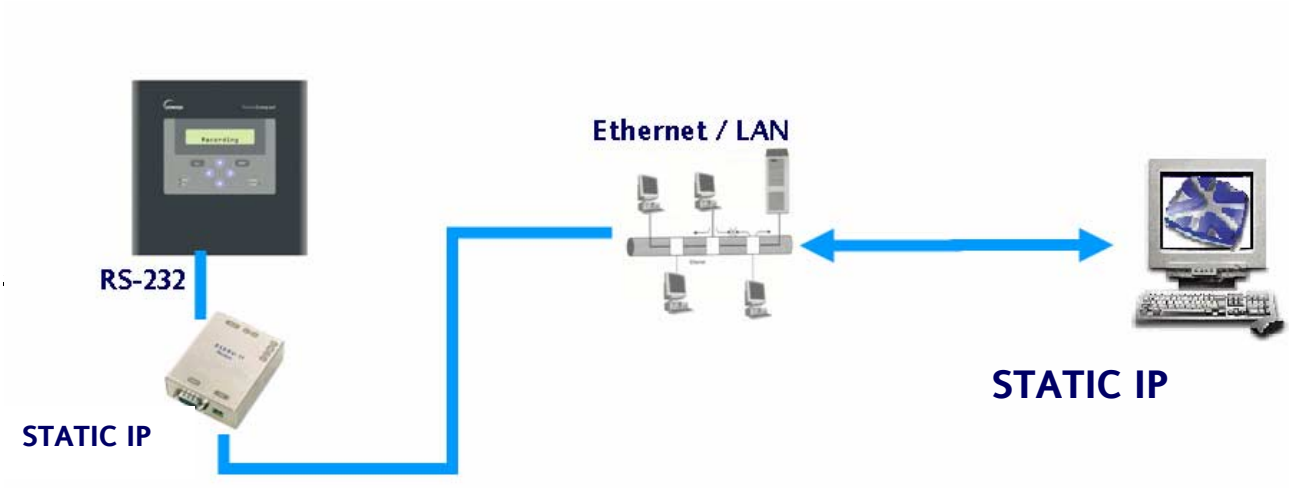
It is possible, for example, to replace the standard or GSM modems currently installed in a Televis system in order to be able to monitor the plant remotely by means of a LAN network instead of a telephone line or GSM network.

The figures below show two examples on how to connect Televis Compact to the PC:

Televis Compact connected to a PC by means of a GSM modem



Televis Compact connected to a PC by means of a LAN network and an Over IP modem.



Using a Viola modem with a Televis Compact supervision and monitoring system

The sections that follow explain how to connect a Televis Compact monitoring and supervision system to a PC using a LAN network and a Viola Over IP modem. These sections also explain how to configure the Televis Interactive software (required to interact with Televis Compact) and list the components required for this type of connection.

Components required to connect a Viola modem to a PC
Viola modem kit that includes:
RS-232 Modem over IP (10 base T)
230V power supply
DB9 M/F cable
Modem emulation software for Windows

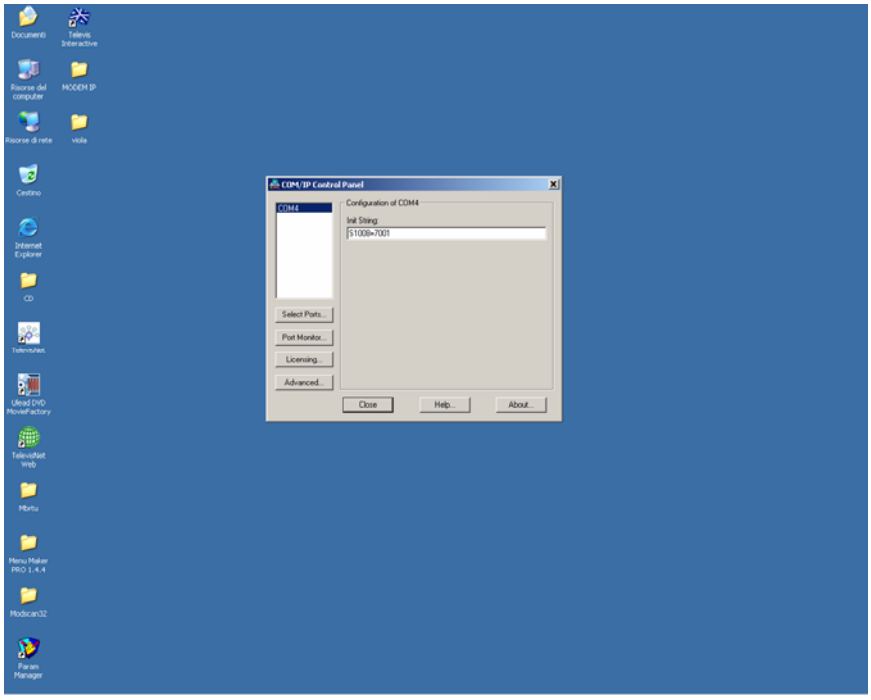
Cross-wired LAN cable or HUB with two standard LAN network cable sections.

Kit Televis Compact that includes:
Televis Compact
CD with setup program for Televis Interactive and Configuration Tool

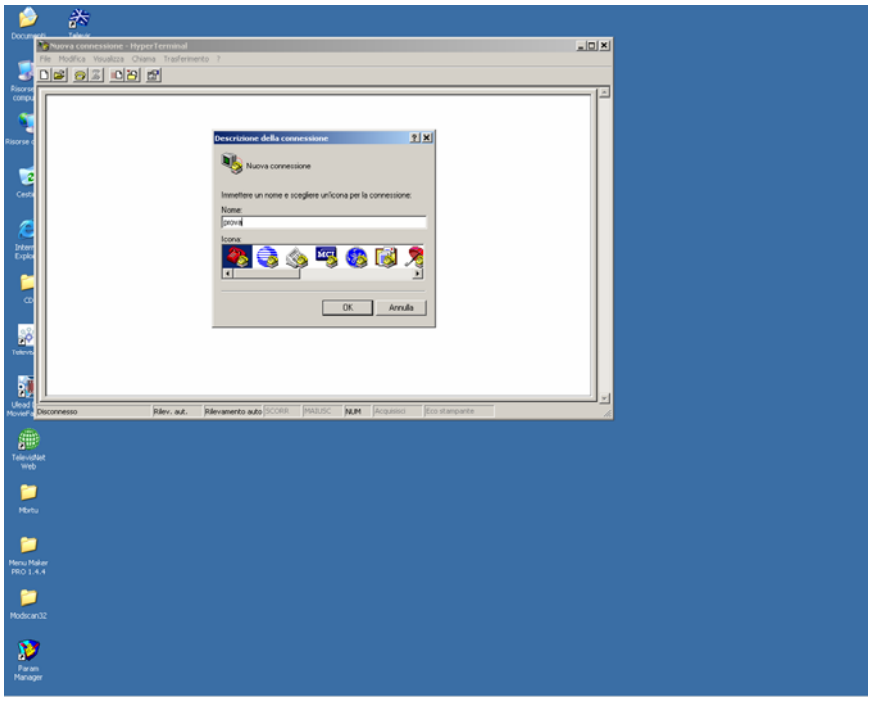
PC running COM/IP (supplied by Eliwell on request) and Televis Interactive

Perform the following procedure:

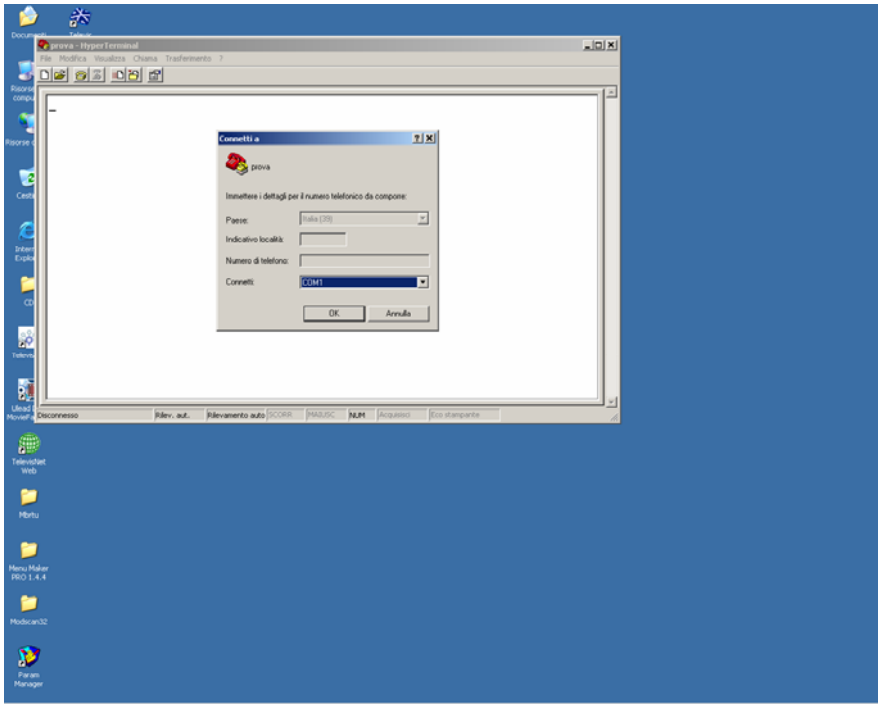
1. Install software COM/IP (supplied separately).
   Open software COM/IP and configure COM4 with button “Select Port”, then type string S1008=7001 as shown in the figure.



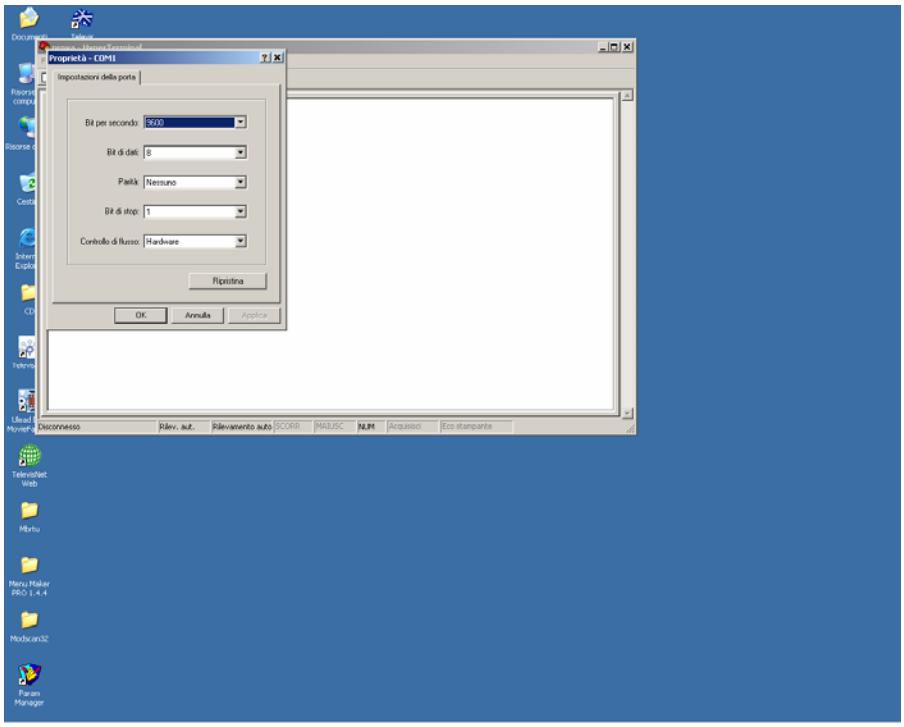
2. Connect the Viola modem using the RS232 serial cable (supplied with the modem) and switch it on. Then, open Windows Hyper Terminal (Start/My Programs/Accessories/Communications) and type the desired name for the connection.



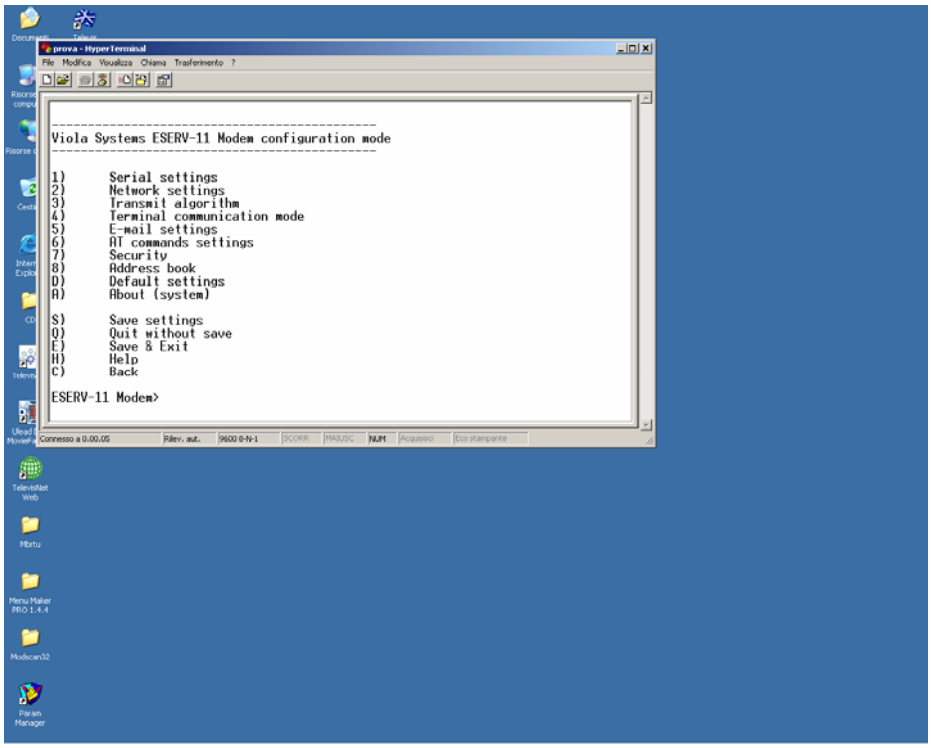
3. Select the COM port used for the connection of the Viola modem.



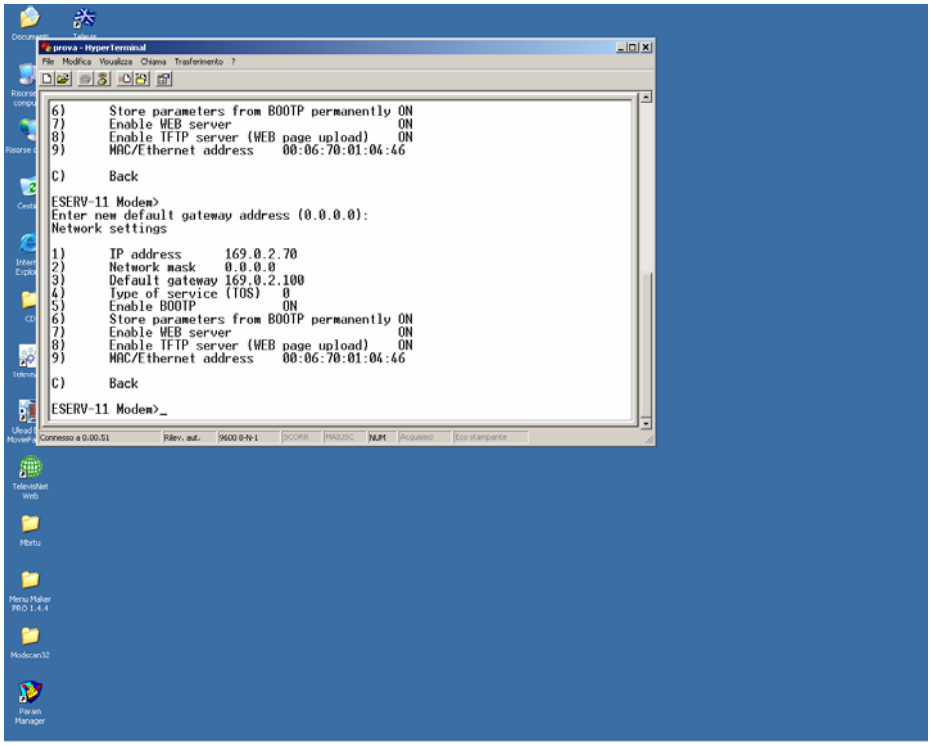
4. Set the baud rate to 9600 as shown in the figure.



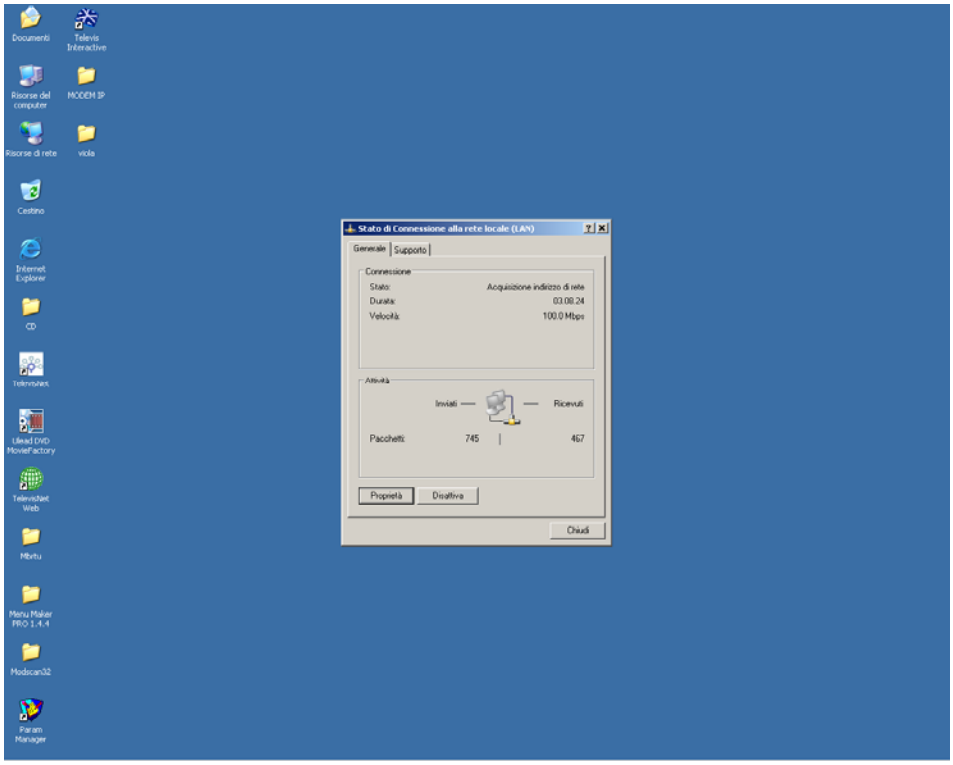
5. Set Dip switch no. 4 of the Viola modem to position ON. The screen shown in the figure displays.



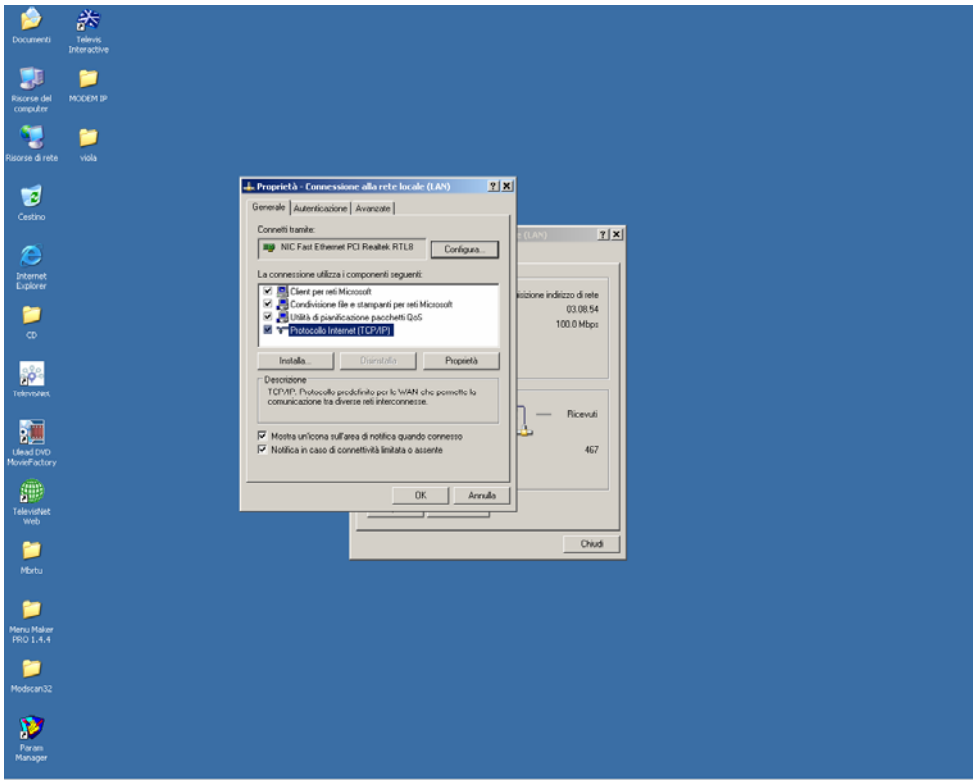
6. Type 2 to select the Network Setting menu and press Enter, then set the IP address and "default gateway".



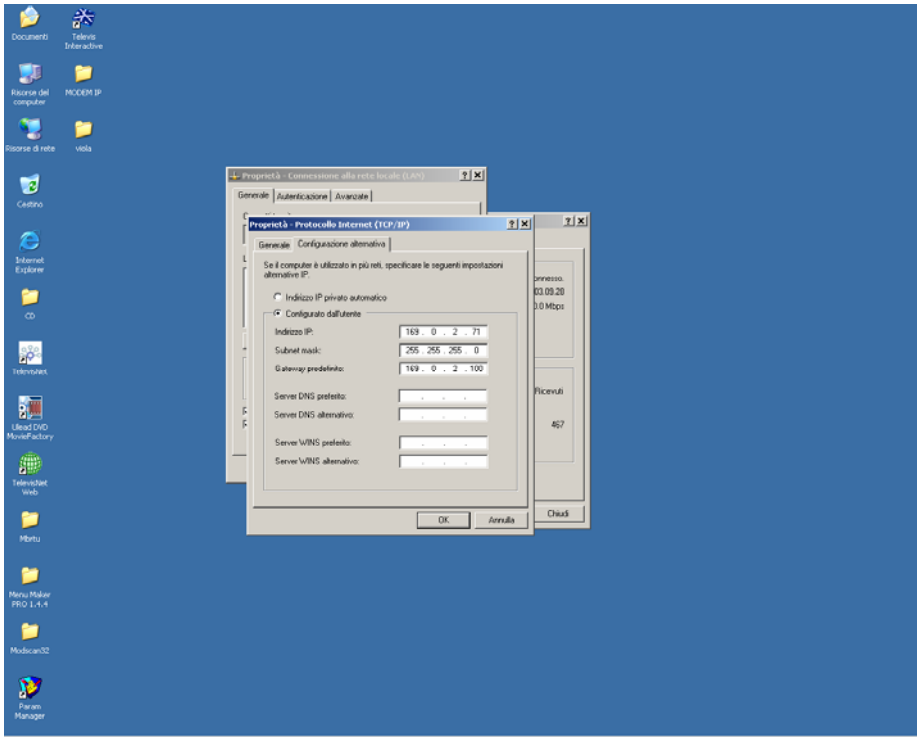
7. Disconnect the RS232 serial cable from the PC, set dip switch no. 4 to OFF and connect the Viola modem to the PC using the cross-wired LAN cable or HUB. Open the “Connection status to LAN“ menu and select "Properties ".



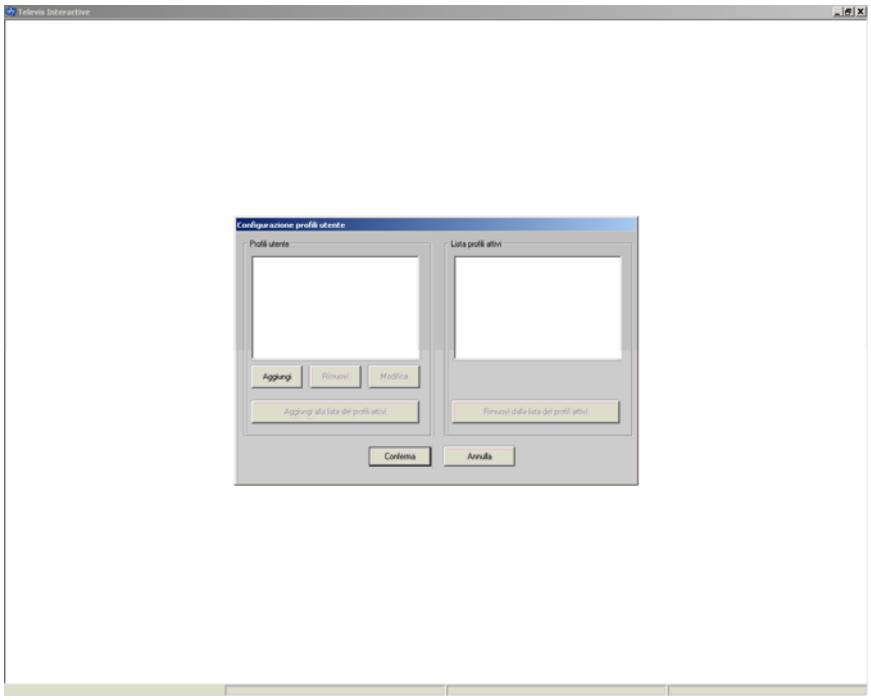
8. Select “Internet Protocol (TCP/IP)” and click " Properties ".



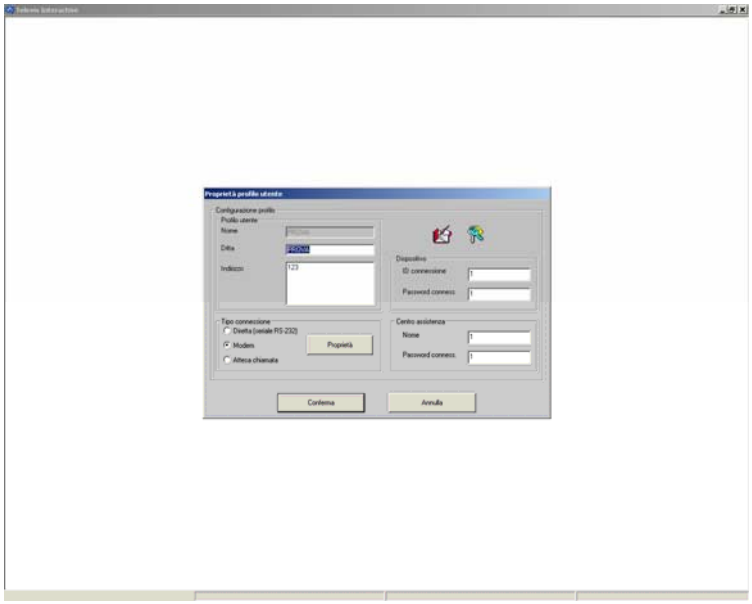
9. Set the IP address making sure that it is different from the one configured for the Viola modem, but belongs to the same group. Then, enter the same values configured for the Viola modem for fields “Subnet mask” and “Gateway”.



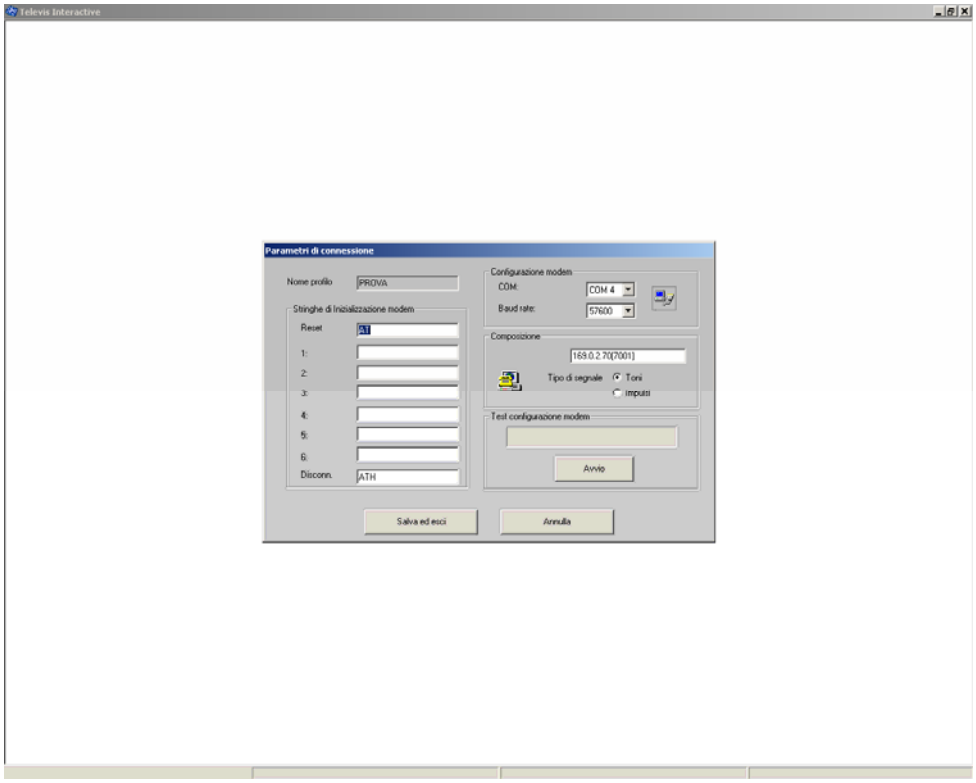
10. Connect the Viola modem to the PC Interface using the RS232 serial cable. In Televis Compact set parameter MODEM PRESENT to YES by selecting /SETUP/PARAMETERS SETUP. Set parameter MODEM COM BAUD RATE to 38400 by selecting / SETUP/PARAMETERS SETUP). Then, switch Televis Compact off and on in order to correctly initialize the Viola modem. For more detailed information, see the User's Manual of Televis Compact.
11. Open software Televis Interactive and create a new user using the “Users Profiles Setup“ menu.



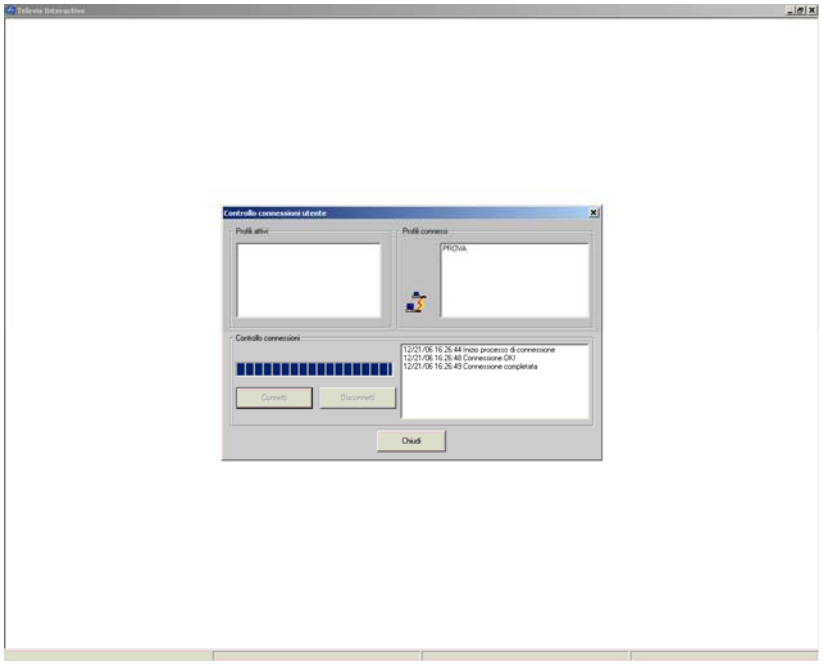
12. Enter the connection data and select Modem as connection type
For more detailed information, see the User's Manual of Televis Compact.



13. Select the “Connection Properties” menu and type the IP address of the Viola modem. For information on how to configure the remaining settings, see the figure below.



14. Quit the menu and save the settings. Then, open the “User Connection Control“ menu and click "Connect" . If the connection has been performed correctly, the program displays “Connection completed”. For more detailed information, see the User's Manual of Televis Compact.



At this point it is possible to manage Televis Compact through Televis Interactive as if using an ordinary modem connection. These instructions also apply to software Configuration Tool.

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Eliwell Controls s.r.l.
Via dell'Industria, 15 • Zona Industriale Paludi • 32010 Pieve d'Alpago (BL) ITALY
Telephone +39 0437 986 111 • Facsimile +39 0437 989 066
Sales +39 0437 986 100 (Italy) • +39 0437 986 200 (other countries)
Email: saleseliwell@invensyscontrols.com
Technical helpline +39 0437 986 300 • E-mail techsuppeliwell@invensyscontrols.com
www.eliwell.it