

Figure 1. Hookup of the module to telephone line.

1. GSM-4S MODULE FEATURES

- Simulation of analog telephone line by the use of cellular connection - which makes it possible to report an alarm situation at the site in case the analog line is out of order or missing.
- Operation with alarm control panels and with other equipment (e. g. DT-1 plus telephone set) using the telephone line for transmitting voice information about the alarm, or for sending text messages to paging system.
- Operation in conjunction with the STAM-1/STAM-2 monitoring station, which makes monitoring of the sites possible with the use of **SMS** short messages.
- Function of an external modem for the CA-64 alarm control panels (support of DLOAD64 and GUARD64 programs)* and the INTEGRA alarm control panels (support of DLOADX and GUARDX programs).
- Answering incoming and making outgoing calls via cable telephone network and via mobile communication system (cellular network).
- Optional selection of the basic outgoing line: GSM / cable (subscriber line).
- Signaling of answering (receiving) a call initiated from the module T-1, R-1 terminals by changing the voltage polarization across those terminals (possibility of tariffication).
- Operation with PBX telephone exchange as additional subscriber's line.
- Pulse and tone dialing modes.
- Substitution of the direct access to cable telephone network and the access to cable telephone network via PBX.

- Four inputs, the violation of which (and restoring to normal status) can be monitored by SMS messages, voice messages or CLIP type information.
 - Three outputs for controlling the electrical devices (e. g. by relays directly connected to the module).
 - Output for signaling the telephone line failure and the cellular line failure.
 - Test messaging (monitoring) in order to confirm the module operative condition
 - Possibility to control the outputs activity by violating the inputs (e.g. tripping alarm device after actuation of an alarm sensor) or by CLIP type calling.
 - Remote controlling of the status of module's outputs and bypassing of the module inputs by using SMS text message or dual tone phone push-buttons (DTMF Signals).
 - Capability of recognizing the message directed to paging system and transmitting it in the form of SMS text message to any cellular telephone number. SMS messages are always sent, irrespective of availability of subscriber's telephone line.
 - Possibility of restricting the access to cellular telephone by making connections to 32 precisely defined numbers, or reduction of available numbers by assigning initial digits to such numbers.
 - Operation with SIM300C three-range professional cellular telephone, compatible with GSM 900/1800/1900Mhz networks.
 - Checking for cellular telephone availability and for antenna signal level.
 - Remote programming of the module from PC computer by using the DLOAD10 program.
 - RS interface (connecting to computer, CA-64 or INTEGRA).
- * - function available for the CA-64 control panel with v1.04.03 program and DLOAD64 v1.04.04 and GUARD64 v1.04.03 programs (or later versions).

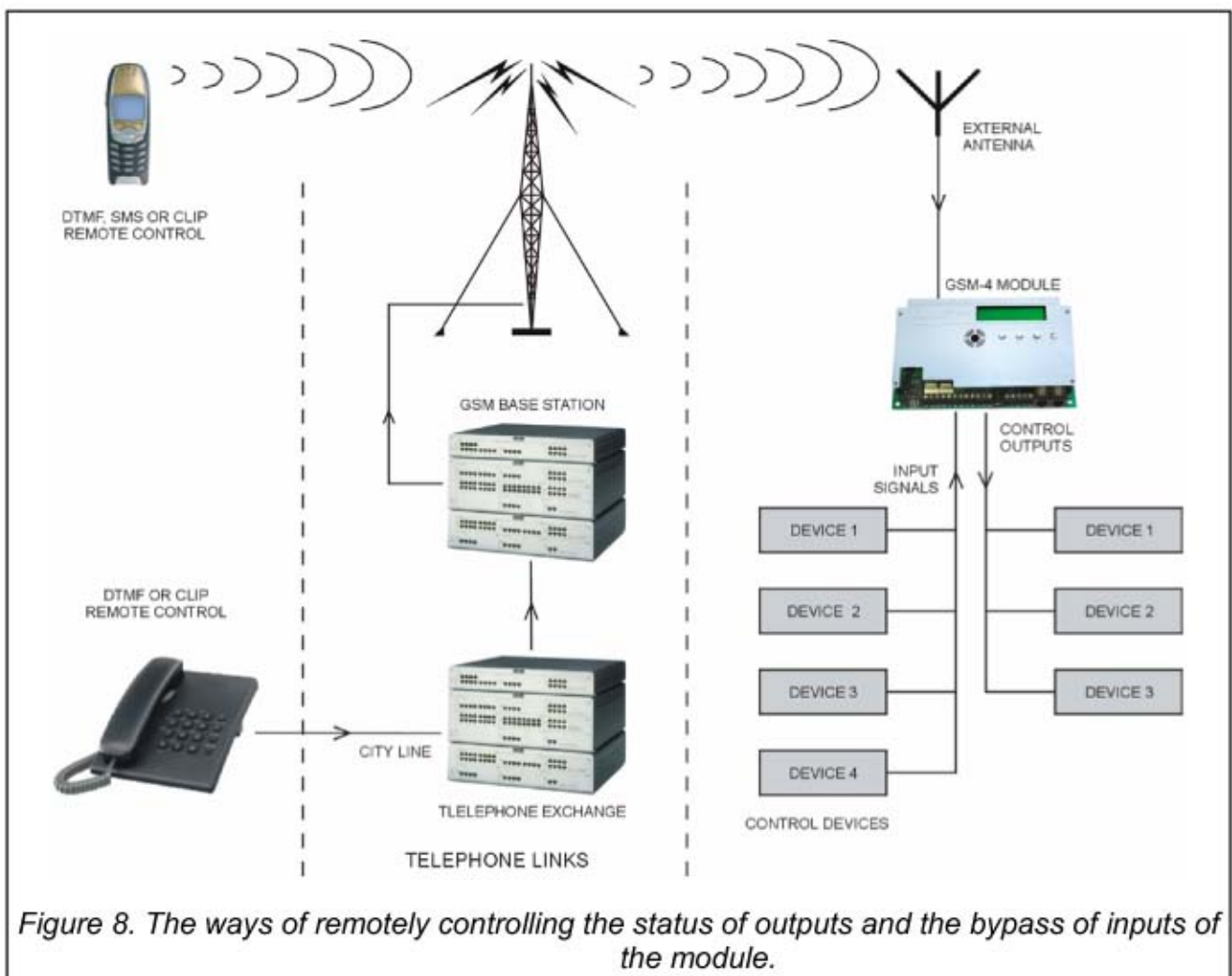


Figure 8. The ways of remotely controlling the status of outputs and the bypass of inputs of the module.