PC-350

The PC-350 is a personal computer equipped for central monitoring station (CMS) use. The PC-350 can work as a standalone CMS or as an extension of existing monitoring station to the IP communication.
The PC-350 is performed for receiving and managing event messages from JA-60GSM, JA-60WEB and GC-61 diallers (detailed instruction manual for each of the diallers is enclosed to their package).
The PC-350 receives UDP packets from above mentioned diallers via Internet connection and SMS messages from JA-GSM and GC-61 via MS-33 GSM module connected to the serial port. The Internet connection is meant as a main communication channel and the SMS is a back up channel.
Therefore it is necessary to allow an Internet connection with fix IP, see the specification in the text below.

Standard items of the PC-350

- PC ASUS, Celeron 2,53
- Keyboard
- Mouse
- MS-33 GSM module MS-33 (WaveCom Fastrack M1306B),
- Power supply adaptor for the MS-33 module
- GSM aerial
- Serial cable for MS-33 connection

PC Information

- MAC address: XXXXXXXX
- GSM module IMEI: xxxxxxxxxxxxxxxx
- PC Name: CMSTEST xxx
- Cabel connecting

Connect cables of items according to the Fig.1

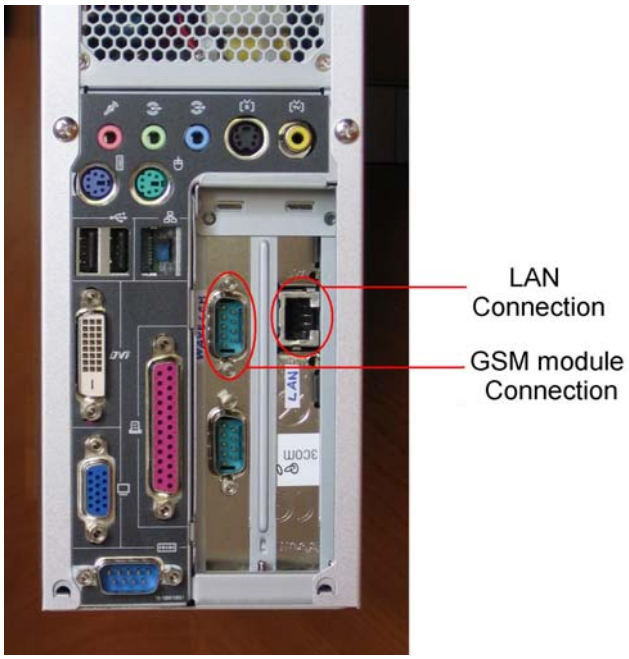


Fig. 1 PC-350 back panel

Local network connection:
As the Ethernet adaptor use to marked RJ connector on the Fig. 2 showed (additional network adaptor). MAC address of the adaptor is mentioned above in the “Standard items chapter”. To keep all the function and application in the good order and to allow remote access set following ports and protocols on the LAN server or firewall:

- TCP – port 3389 and 5300
- UDP – port 8080 and 8083

The UDP packets from diallers are sent to the **fix IP** with port 8080 of a network server (firewall or another local Internet connection), therefore this IP should be public and accessible by external network. A server should resent these packets to the PC-350's local IP address.

Starting the PC-350

The PC-350 computer has two users activated. Use the following user when working with the PC-350:

User: IPCMS
Password: ipcommunication

The user „*Jablotron*" is activated for a remote access by authorized Jablotron company technician if any change of configuration is demanded.

Note: Do not change user names or user passwords of the PC-350 computer during the time of testing operation (3 month period after the delivery).

When the PC-350 is started for the first time, a user should choose one of the running modes of the PC-350. The icon **CMS setup** displays possible running mode. See the text below for detailed information about the modes.

Running modes

The icon **CMS setup** displays possible running mode. The mode which are not installed are not available on the menu. The „Apply changes" button press starts the chosen running mode (see Fig. 2).

Fig. 2 PC-350 modes

ComGuard mode
This mode set the PC-350 as a standalone monitoring station with user software - ComGuard. After the confirming of the choice, the ComGuard software starts. The ComGuard requires an operators name and password. Use the following:

Operator: Supervisor
Password: 123456

The instruction manual for the ComGuard software is save on the hard disk: C:\PC350\doc\.. or you can open it by the icon *ComGuard manual* on the desktop.

All the information and data of the ComGuard is stored into the SQL database called *ComGuardMain.* This database is backed up into the folder C:\Jablotron\DBBackup\… as a "ComGuardMainDDMMRR.bak" file. The DDMMRR part in the name of the file is the date of the backup (dayday monthmonth yearyear).
Recommendation: Set the backup path to another PC as a path to network drive to keep backup files for case of the PC-350 hardware failure.

In case of the ComGuardMain database corruption or if the database restore is demanded, use an application CGDBtool.exe, which is placed into the folder C:\Jablotron\CGDBTool\ … . How to restore database:

1. *Run the CGDBtool.exe,*
2. *Click the "Use SQL server authentication",*
3. *Fill the passwors as "sa",*
4. *Select database to backup/restore: ComGuardMain*
5. *Backup/restore File Name – search the last backed up file ComGuard_30_DDMMRR.bak,*
6. *Press "Restore" button*

Attention! *If the restore function application is started accidentally and the present database contains later data, they will be rewrite by the last performed backup!*

Kronos NET
The "Kronos NET" software is the professional product for security agencies. The possibilities of the software are described in its manual. When the mode is chosen, all the necessary services are started, but the application of the software must be started manually – the Kronos Terminal or Kronos Config.

CID350 server mode
The PC-350 set into this mode works as an interface between IP or SMS communication and a telephone receiver of an existing monitoring station. The PC-350 receives data from JA-60GSM, JA-60WEB and GC-61 diallers and stores them into an SQL database. The stored data are read by the CID-350Server application. The CID-350Server sends the data to the CID350 Modem and this module transform the data into the Contact ID telephone line format. The CID350 Modem rings telephone input of the existing monitoring station and send the received data as a classic Contact ID format event.
The CID350 Modem is connected to the PC-350 via USB cable.

CID350 mode requirements:

- CID350 Modem – the module is not included as a standard item, it must be demanded separately,
- free telephone input on the provider's telephone monitoring station,
- the provider's monitoring station must be able to receive CONTACT ID format,
- the phone output of the CID350 Modem must be connected to the phone input of the provider's monitoring station directly (the CID350 Modem generates ring signal on a telephone line),
- the CID350 Modem may not be connected to the common telephone line or may not be linked to another telephone line.

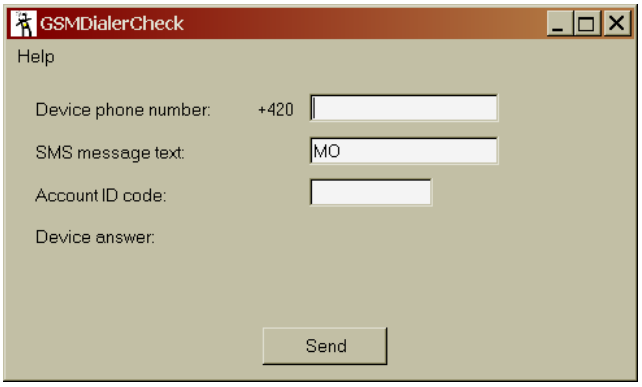
JbtCID2Serail mode
When the JbtCID2Serail mode is set, the PC-350 behaves as it is monitoring station receiver connected to a PC via COM port. The communication protocol for COM port is Surgard or Ademco 685. The parameters of the mode can be set with help of JbtCID2Serial Configurator application (open menu Start – programs – Jablotron – JbtCID2Serail - JbtCID2Serail Configurator) this application allows user to set COM port parameters, protocol for communication, frequency of heartbeat signal, SQL setting and setting for periodic testing interval checking. The PC-350 working in mode JbtCID2Serail resend all the received events except periodic tests – they are only supervised and in case of missing events from particular accounts, the application sends the information about lost connection with the account via COM port.

SQL database mode
The SQL database mode is applicable when a third party monitoring station is equipped by an application which is capable to access the SQL database on the PC-350 remotely and can read the new received data from the database directly. The producer of the PC-350 can provide detailed information about database structure when demanded.

Supporting applications

GSMDialerCheck

The icon “GSMDialerCheck” on the desktop starts the application. The application is used for communication check with JA-60GSM dialers.
Fill the “Device phone number” by the telephone number of the SIM card, which is in the contacted JA-60GSM dialler.
Fill the “Account ID code” by the account ID of the contacted account (according to the setting of the JA-GSM dialler).
The content of the “SMS message text” is sent to the set telephone number via the MS-33 GSM module when the “Send” button is pressed down.
We recommend keep the text of the “SMS message text” as a “MO”. The MO is the key word for asking JA-60GSM dialler status. The JA-60GSM dialler answers by an SMS with defined structure. The SMS is displayed in the “Device answer:” and the application transform the SMS message into a new Contact ID record in the database with the defined Account ID according to the SMS content. As the result of this action is a record in the database, the event will be displayed as a new event message from the account.



The Appendix A contains a translation table for the sources of the Contact ID format. The sources are arranged according to the possible codes sent by the GSMDialerCheck application.
The complete function of the application is supported by JA-60GSM diallers version FJ61406 and higher.

Note: The application cannot be moved to another computer and the application cannot send SMS abroad. A hardware key of the PC-350 protects the starting and setting of the application.

CMSList

The function opens an overview of all the received event messages. Messages can be sorted by Account ID or by a date period.
The function is available only if the “Start WEB Server” checkbox is on – see the **CMS Setup** window.
Start the function by the “CMSList” icon on the desktop, the a Internet browser display a login dialog. Login as a user *jablotron* with a password *jablotron*. Then a filter dialog will be displayed – set an Account ID and a date period for filtering messages. If the filters are blank, all the received messages will be displayed.

Contact

ARC technical support
Tel: +420 483 559 931, +420 559 933
Mobile: +420 777 775 031
E-mail: pco@jablotron.cz

Appendix A

Source table for GSMDialerCheck reports

Source	Translation
999	Communicator received SMS
998	Communicator processing SMS
9AA	Communicator doesn't respond
9A1	signal is too weak, GPRS-no,MS1-no,MS2-yes
9A2	signal is too weak, GPRS-no,MS1-yes,MS2-no
9A3	signal is too weak, GPRS-no,MS1-yes,MS2-yes
9A4	signal is too weak, GPRS-yes,MS1-no,MS2-no
9A5	signal is too weak, GPRS-yes,MS1-no,MS2-yes
9A6	signal is too weak, GPRS-yes,MS1-yes,MS2-no
9A7	signal is too weak, GPRS-yes,MS1-yes,MS2-yes
91A	signal 20%, GPRS-no,MS1-no,MS2-no
911	signal 20%, GPRS-no,MS1-no,MS2-yes
912	signal 20%, GPRS-no,MS1-yes,MS2-no
913	signal 20%, GPRS-no,MS1-yes,MS2-yes
914	signal 20%, GPRS-yes,MS1-no,MS2-no
915	signal 20%, GPRS-yes,MS1-no,MS2-yes
916	signal 20%, GPRS-yes,MS1-yes,MS2-no
917	signal 20%, GPRS-yes,MS1-yes,MS2-yes
92A	signal 30%, GPRS-no,MS1-no,MS2-no
921	signal 30%, GPRS-no,MS1-no,MS2-yes
922	signal 30%, GPRS-no,MS1-yes,MS2-no
923	signal 30%, GPRS-no,MS1-yes,MS2-yes
924	signal 30%, GPRS-yes,MS1-no,MS2-no
925	signal 30%, GPRS-yes,MS1-no,MS2-yes
926	signal 30%, GPRS-yes,MS1-yes,MS2-no
927	signal 30%, GPRS-yes,MS1-yes,MS2-yes
93A	signal 40%, GPRS-no,MS1-no,MS2-no
931	signal 40%, GPRS-no,MS1-no,MS2-yes
932	signal 40%, GPRS-no,MS1-yes,MS2-no
933	signal 40%, GPRS-no,MS1-yes,MS2-yes
934	signal 40%, GPRS-yes,MS1-no,MS2-no
935	signal 40%, GPRS-yes,MS1-no,MS2-yes
936	signal 40%, GPRS-yes,MS1-yes,MS2-no
937	signal 40%, GPRS-yes,MS1-yes,MS2-yes
94A	signal 50%, GPRS-no,MS1-no,MS2-no
941	signal 50%, GPRS-no,MS1-no,MS2-yes
942	signal 50%, GPRS-no,MS1-yes,MS2-no
943	signal 50%, GPRS-no,MS1-yes,MS2-yes
944	signal 50%, GPRS-yes,MS1-no,MS2-no
945	signal 50%, GPRS-yes,MS1-no,MS2-yes
946	signal 50%, GPRS-yes,MS1-yes,MS2-no
947	signal 50%, GPRS-yes,MS1-yes,MS2-yes
95A	signal 60%, GPRS-no,MS1-no,MS2-no
951	signal 60%, GPRS-no,MS1-no,MS2-yes
952	signal 60%, GPRS-no,MS1-yes,MS2-no
953	signal 60%, GPRS-no,MS1-yes,MS2-yes
954	signal 60%, GPRS-yes,MS1-no,MS2-no
955	signal 60%, GPRS-yes,MS1-no,MS2-yes
956	signal 60%, GPRS-yes,MS1-yes,MS2-no
957	signal 60%, GPRS-yes,MS1-yes,MS2-yes
96A	signal 70%, GPRS-no,MS1-no,MS2-no
961	signal 70%, GPRS-no,MS1-no,MS2-yes

962	signal 70%, GPRS-no,MS1-yes,MS2-no
963	signal 70%, GPRS-no,MS1-yes,MS2-yes
964	signal 70%, GPRS-yes,MS1-no,MS2-no
965	signal 70%, GPRS-yes,MS1-no,MS2-yes
966	signal 70%, GPRS-yes,MS1-yes,MS2-no
967	signal 70%, GPRS-yes,MS1-yes,MS2-yes
97A	signal 80%, GPRS-no,MS1-no,MS2-no
971	signal 80%, GPRS-no,MS1-no,MS2-yes
972	signal 80%, GPRS-no,MS1-yes,MS2-no
973	signal 80%, GPRS-no,MS1-yes,MS2-yes
974	signal 80%, GPRS-yes,MS1-no,MS2-no
975	signal 80%, GPRS-yes,MS1-no,MS2-yes
976	signal 80%, GPRS-yes,MS1-yes,MS2-no
977	signal 80%, GPRS-yes,MS1-yes,MS2-yes
98A	signal 90%, GPRS-no,MS1-no,MS2-no
981	signal 90%, GPRS-no,MS1-no,MS2-yes
982	signal 90%, GPRS-no,MS1-yes,MS2-no
983	signal 90%, GPRS-no,MS1-yes,MS2-yes
984	signal 90%, GPRS-yes,MS1-no,MS2-no
985	signal 90%, GPRS-yes,MS1-no,MS2-yes
986	signal 90%, GPRS-yes,MS1-yes,MS2-no
987	signal 90%, GPRS-yes,MS1-yes,MS2-yes
99A	signal 100%, GPRS-no,MS1-no,MS2-no
991	signal 100%, GPRS-no,MS1-no,MS2-yes
992	signal 100%, GPRS-no,MS1-yes,MS2-no
993	signal 100%, GPRS-no,MS1-yes,MS2-yes
994	signal 100%, GPRS-yes,MS1-no,MS2-no
995	signal 100%, GPRS-yes,MS1-no,MS2-yes
996	signal 100%, GPRS-yes,MS1-yes,MS2-no
997	signal 100%, GPRS-yes,MS1-yes,MS2-yes