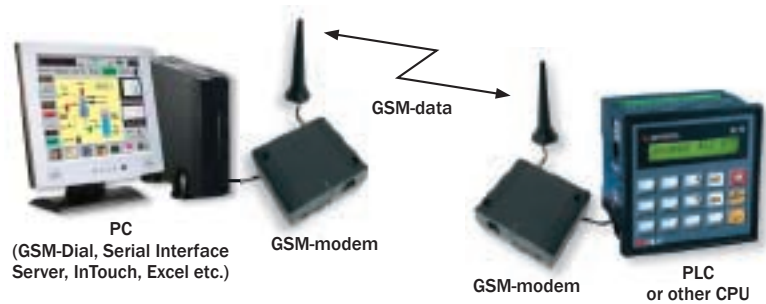


# GSM-Dial (PLC Dialer for GSM modems)

The Klinkmann Automation **GSM-DIAL** (PLC Dialer for GSM modems) is a Windows 32-bit application program used to create the connection between Communication Server (OPC or DDE) supporting serial communications ("Serial Communication Server") and Programmable Logic Controller (PLC) over the GSM network, so making available data exchange between Communication Server and PLC using GSM data communications.



The GSM-DIAL runs on MS Windows NT or 95 and needs the GSM modem (e.g. **Siemens TC35T** or other supporting standard AT command interface and AT Cellular commands (GSM 07.07)) to be connected to PC standard (RS-232) serial port. Both GSM modem and standard modem can be used at PLC side. The modem used at PLC side (Remote Modem) must be able to save configuration to modem's non-volatile memory. The Remote Modem can be configured only once before connection to PLC and telephone line. The modem used at computer (Serial Communication Server) side (Local Modem) may not have this feature. The Local Modem can be configured every time before the Serial Communication Server startup.

The modem dialing and hang-up with GSM-DIAL can be also performed using OPC or DDE. The GSM-DIAL can act as an OPC (OLE for Process Control) or DDE (Dynamic Data Exchange) Server allowing other Windows application programs to send the phone number to be dialed to the GSM-DIAL and receive the dialing result.

KLINKMANN supplies and develops the necessary OPC and DDE Servers for all major PLCs and devies - ask availability.

## FEATURES

All necessary setting for serial ports and modems are provided.

The GSM-DIAL works with GSM modems supporting standard AT commands and AT+Cellular commands (GSM 07.07).

The GSM-DIAL can be started with two command line parameters. One parameter is the phone number to dial when GSM-DIAL is started. Another parameter is the name of executable to be started after dialing.

The GSM-DIAL configuration setting are stored in the GSM-DIAL.INI file.

The GSM-DIAL supports two OPC or DDE items: phone number to be dialed and the result of dialing. This allows to perform the automatic dialing from any Microsoft Windows program that is capable of acting as an OPC or DDE Client.

## SPECIFICATIONS

### Hardware

IBM or compatible 386/486/Pentium equipped with a minimum of 4 MB RAM (16 MB RAM for Windows NT). May require more memory to run other Windows programs simultaneously.

### Software

Microsoft Windows NT, W2K, XP or 95 (98).

### Connections

One serial port on PC can be connected to one GSM or standard modem.

### Devices supported

GSM modems (e.g. Siemens TC35T) supporting standard AT command interface and AT Cellular commands (GSM 07.07). At PLC side also standard modems can be used.

### Communication Settings Supported

Data transmission rate up to 9600 bit/s in non-transparent mode. The communication protocol used to communicate with Serial Communication Server should support 10-bit frames, e.g. 8 data bits, 1 stop bit, no parity.

### Main Meny Commands

There are following GSM-DIAL top-level menu items available:

**File** - executes and terminates Serial Communication Server, closes the GSM-DIAL program.

**Port** - used for opening, closing and setting parameters for communication port.

**Modem** - used for the setting of modem parameters, initializing, dialing and hanging up the modem.

**Remote Modem** - used for the setting of parameters for Remote Modem and for Remote Modem initialization.

**Options** - used for invoking the "Options" dialog box where additional GSM-DIAL options can be set.

**Help** - displays GSM-DIAL help file.

## ORDERING INFORMATION

| Description                                     | Order Number |
|---|--------------|
| GSM-DIAL DDE version<br>Manual & Disk Set       | PR 000 85    |
| GSM-DIAL OPC & DDE version<br>Manual & Disk Set | PR 000 86    |