GSM-PRO

Once the portal software is started on the PC, all modules are quickly registered. Options and possibilities of portal software in order to enable this functionality. Pre-installed modules can also be installed. GSM-PRO modules. It can be easily implemented without any prior programming knowledge.

The GSM-PRO portal provides a clear, versatile monitoring and control system for all actions and I/Os for the module. This log can also be easily exported. When a module is selected, a window opens showing detailed information about its properties and configuration. The specific names of the I/Os are displayed along with the standardized abbreviations of the GSM-PRO module. All module outputs can be controlled by simply clicking on the corresponding portal buttons. The “Events Log” lists all state changes to the inputs and outputs of the module. This log is useful for troubleshooting and monitoring the device's performance.

By clicking the mouse on the corresponding button in the portal software, a broadcast signal is sent out and the selected outputs are activated. This monitoring function, the outputs of all field modules can be controlled directly. This allows for easy installation and configuration. All modules in the field can now be easily monitored and controlled from a central location.

Status displays for the GSM-PRO module

On = modem is functioning
‘Busy’ LED displays activity on the modem
On = connection with GSM network
On = module started
‘Run’ LED displays module activity

LED status displays for all inputs and outputs

- Off = no power supply
- Green = On
- Red = OFF
- Yellow = Module starts
- Orange = Module error

Screw wire connection
Enclosed housing, with width of 88 mm
Mounts on TS 35 or directly mounted

Portal Software

Portal Software is a powerful tool for managing and monitoring GSM-PRO modules. It provides an overview of registered GSM-PRO modules, which already have one overall view of the status of locations even though they normally have configurations which are very different. These modules are put to use at various remote locations in the field. The portal software in the field and in the portal can be installed on any Windows PC (XP, Vista, or Win7). The field modules can use port forwarding to communicate with the portal software.

Options and possibilities

GSM-PRO modules. It can be easily implemented without any prior programming knowledge. The GSM-PRO portal provides a clear, versatile monitoring and control system for all actions and I/Os for the module. This log can also be easily exported. When a module is selected, a window opens showing detailed information about its properties and configuration. The specific names of the I/Os are displayed along with the standardized abbreviations of the GSM-PRO module. All module outputs can be controlled by simply clicking on the corresponding portal buttons. The “Events Log” lists all state changes to the inputs and outputs of the module. This log is useful for troubleshooting and monitoring the device’s performance.

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**GSM-PRO – perfect for communication**

CONTAL-CLIP’s GSM-PRO module offers a remote control and maintenance solution which allows you to monitor and control decentralized facilities.

The GSM-PRO module informs you when the process reaches a user-defined status or limit value. Digital and analogue inputs values can also be transmitted via e-mail or SMS (text message). The digital relay outputs can be switched using an SMS sent from the decentralized control room or from the service technician.

Thus the process can be monitored and controlled remotely.

Monitoring and controlling the GSM-PRO module is even easier when you use our iPhone or Android App. If you are using multiple modules and you need a complete overview of all modules in the field at a glance, then CONTA-CLIP’s portal software provides another helpful solution.

All of the module inputs, output and associated functions can be easily configured using the module software included in the delivery.

The wide-range input makes it possible to operate the GSM-PRO module with supply voltages from 10 to 30 V DC. So the I/O module can also be used in mobile applications, such as those for the transportation sector.

### Inputs

You can stay up to date with just one SMS or e-mail message.

The GSM-PRO module features eight multi-function inputs. The input module may be selected as either digital (24 V DC) or analogue (0 to 10 V), so that many different signal levels can be connected.

A designated person or group from the built-in address book will then be notified with an SMS or e-mail message if a specified status changes on the input side. The software allows you to easily specify the notification status, the person or group to be notified, and the content of the SMS. You can also query the current status of the process or machine simply by sending a query SMS message. The query message can specify specific inputs or all inputs.

**Analogue inputs**

The required measurement units can be custom defined on the analogue inputs (kg, bar, etc.). You can then monitor an analogue process and have an SMS message sent out depending on various circumstances:

- When an input exceeds a defined maximum limit,
- When an input is below a defined maximum limit,
- When an input returns to a normal state within the specified limits.

**E-mail**

E-mails are sent directly from the GSM-PRO module via an SMTP server to the recipient. The CONTA-CLIP server is set as the standard server.

The software also allows you to set up your own server.
Outputs

The **GSM-PRO** module features four relay outputs (four COs) with 250V/5A. The versatility of the outputs enables machine and facility functions to be controlled even when you are not on-site.

The status of one or more outputs can be queried with a single SMS text message. When a process requires a control pulse, the outputs can also be controlled with an SMS. An output can also be activated simply by calling it up when using the call-in function. If an output only needs to be controlled for a specific duration (to issue a reset pulse, for example), then the output can be activated for a period between 1 and 36,000 seconds using an SMS or phone call to activate the impulse-ON contact function.

It is also possible to link an output internally to a digital input. So as soon as the input switches to “one”, an SMS or e-mail is sent out and the corresponding output is switched.

**OTA (over-the-air) capabilities**

In many systems or machines, some parameters or user entries may need to be changed after the installation is completed. In such cases you may also need to change parameters on the **GSM-PRO** module. The **GSM-PRO** module features OTA (over-the-air) functions for just such instances. This functionality allows you to change parameters without having to be on site:

**OTA configuration**

The initial configuration process must always take place via a direct USB connection between the **GSM-PRO** module and the PC. When the APN settings are specified during this initial configuration, it is still possible to access the module later via OTA and change the configuration. Whether you’re adding a new phone number of a user, a new I/O setting, a change in the module name or any other change: the settings on all **GSM-PRO** modules can easily be changed from remote locations.

**OTA firmware updates**

The **GSM-PRO** module can also update its firmware using OTA, so modules with different versions can always be kept up to date. The newest software can be installed remotely. You can also add new functions and configure them without being on site.

The OTA firmware update can be triggered with an SMS that is sent to the **GSM-PRO** module containing a specific code. This setting allows the user to have complete control of whether or when an update will be installed.
Log functionality

Is your process running optimally? What happened last week? How many hours has the machine been running this week?

The GSM-PRO module delivers answers to all these questions. The extensive logging functionality of the GSM-PRO module allows you to log events that have taken place at a facility or a machine over a defined period of time.

Event log
This log function of the module keeps track of a variety of activities and events. The following events are logged:

- The threshold limit on an an analogue input (AI) has been reached
- Rising and falling edges of the digital inputs (DI)
- Incoming messages
- Outgoing messages
- Data transfers
- OTA updates

Logs for the analogue inputs
When analogue signals are being used in a process, the GSM-PRO features an AI Log function which allows you to log any process values from the analogue input which have a specified frequency. In this way you can compile a history of the process that can help you later to optimize the process. The logging frequency can be configured in steps from 5 to 60 minutes.

Both log files can be transferred to the PC using a USB cable. Or, using the OTA functions, you can have the log files automatically sent to your e-mail address.

Smartphone app

CONTA-CLIP’s iPhone and Android smartphone apps for the GSM-PRO modules provide a simple and fast solution so that you can get an overview of each distributed system and application. These apps can show you the status of all inputs and outputs from one or more GSM-PRO modules.

They also allow you some control over the process. Module outputs can be controlled easily and directly using this app. The app buttons provide an intuitive control interface (for controlling the heating, a motor, water pump, etc.).

The start is easy! The address book for the GSM-PRO modules can be set up easily and quickly. Whether you are using one or multiple GSM-PRO modules, all modules names are clearly displayed within the app.

Updates are easy! Once a GSM-PRO module is selected from the list, the current states of the inputs and outputs are displayed. Additional extended values can also be displayed associated with the analogue inputs.

Control is easy! From the list of available outputs, each output can be individually selected and controlled (with or without a timer function) with just the press of a button.

Saving is easy! The 30 most recent I/O events will be saved even when the app is not currently running on your smartphone. So the user always stays informed.
**Portal Software**

The GSM-PRO, like most SMS modules, are often used as stand-alone units in the field. These modules are put to use at various remote locations even though they normally have configurations which are very similar. It is often quite helpful to have one overall view of the status of all modules used in the field. The new GSM-PRO portal software from CONTA-CLIP offers you precisely this possibility. This software is very easy to install and configure. All modules in the field can now be easily monitored and run from a single local site or control panel.

The GSM-PRO portal software can be installed on any Windows PC (XP, Vista, or Win7). The field modules can use port forwarding to communicate with the portal software so that they can be monitored and controlled. Specific IP addresses and ports must first be configured on the GSM-PRO modules in the field and in the portal software in order to enable this functionality. Pre-installed modules can also be integrated later into the portal by using OTA configuration.

Once the portal software is started on the PC, all modules are quickly registered. They are then listed in alphabetical order on the portal.

The portal displays an overview of registered GSM-PRO modules, which already shows the status of all detected inputs and outputs. Any state changes to the inputs or outputs are marked yellow in the overview. So even when many modules are registered with the portal, changes to any one module are easily visible. In addition to this monitoring function, the outputs of all field modules can be controlled directly. By clicking the mouse on the corresponding button in the portal software, a broadcast signal is sent out and the selected outputs are activated.

When a module is selected, a window opens showing detailed information about that particular module. The specific names of the I/Os are displayed along with the standardized abbreviations of the GSM-PRO module. All module outputs can be controlled by simply clicking on the corresponding portal buttons. The “Events Log” lists all actions and I/Os for the module. This log can also be easily exported.

The GSM-PRO portal provides a clear, versatile monitoring and control system for GSM-PRO modules. It can be easily implemented without any prior programming knowledge.

**Options and possibilities**

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The GSM-PRO, like most SMS modules, are often used as stand-alone units for monitoring and control. They can be integrated into a larger system by using portal software. The portal software is designed to allow for easy configuration and management of these modules.

### Portal Software

When the portal software is started on a PC, all modules are quickly registered. The software provides options to integrate pre-installed modules or install new ones through OTA configuration. Once the portal is up and running, it shows the status of all detected inputs and outputs. Any state changes to the inputs or outputs are marked yellow in the overview. This makes it easy to monitor the status of the modules.

### Options and Possibilities

The portal software can be installed on any Windows PC (XP, Vista, or Win7). The field modules can use port forwarding to communicate with the portal. This allows for remote monitoring and control of the modules.

The GSM-PRO portal provides a clear, versatile monitoring and control system for managed by simply clicking on the corresponding portal buttons. The "Events Log" lists standardized abbreviations of the GSM-PRO module. All module outputs can be controlled directly.

By clicking the mouse on the corresponding button in the portal software, a broad cast signal is sent out and the selected outputs are activated. This monitoring function, the outputs of all field modules can be controlled directly.

When a module is selected, a window opens showing detailed information about it. This information includes LED status displays for all inputs and outputs.