

## CMGSM Communication module for FATEK FBs serie

### Basic Features

**CMGSM** is the communication module for FATEK PLC systems using GSM net to transfer the data. With the same HW, there are two different ways of operation available. First one is **monitoring and remote control by SMS with optional data transfer connection** for the purpose of remote system analysis and PLC software tuning and modification. The second way is **GPRS data connection** using TCP/IP protocol. The module can work with any PLC element including logical inputs and outputs of the PLC system. The I/O number is limited only by FBs serie PLC capacity that is 255 logical inputs and 255 logical outputs. So typical system will have CMGSM connected to one PLC main unit, which can be expanded with one or more I/O expansion units to required number of logical and analog inputs and logical outputs. For basic use of CMGSM the PLC system is used only like input/output interface without any PLC program, but it is of course possible to use PLC program for control of the system without any limitation including PLC main units networking. CMGSM has additional PLC independent 3 HW logical inputs/outputs terminals for 24V logical signals, that work also after PLC power failure from 600mAh internal Li-Ion battery. TC-45 JAVA OPEN CODE SIEMENS GSM module 900/1800MHz is used.



### Highlights

- choice of **GPRS data connection** with TCP/IP protocol or **SMS + data call SW** version
- WinProlad remote GSM data transfer connection supported in both SW versions
- USB port for module configuration, monitoring and local WinProlad use
- Li-Ion 600mAh battery for minimum 24 hours of no power operation
- Lowest level super watchdog function (Hardware power off and on )
- Additional 3 hardware PLC independent 24V logical inputs/outputs available
- Can be used directly with FBs-xxMC (P3) or via CA with FBs-xxMA (P2)
- Basic function of the module is completely PLC program independent
- SMS outgoing messages generated from any PLC register status – monitoring (only SMS version)
- Incoming SMS can modify any PLC register – remote control function (only SMS version)
- Extended functionality requires PLC program interaction (fast changes latching)
- one CMGSM can work for network of PLC units, inputs and outputs can be placed at different places
- unlimited number of logical and analog inputs and outputs can work with one CMGSM (PLC network)

### Specification

Mechanical dimension: 25x70x93 mm  
 Plastic case: similar to FBs-CMxx  
 Fixing: DIN rail or flat panel screw fixing  
 Power : from 5V power supply of PLC main unit (or from USB for configuration)  
 Backup power: 3,7V 600mAh internal Li-Ion battery  
 Inputs/ Outputs: total 3, function SW selectable  
 HW log. Inputs: 12-30V 10mA DC insulated  
 HW log. Outputs: max. 60V 100mA insulated  
 Temperature range: from -20°C to +50°C  
 GSM RF power: 2W max., aerial 50Ohm, SMA con.

### Typical use

- ❑ all FATEK FBs control systems that should be monitored or remote controlled via GSM net
- ❑ for GSM monitoring and remote control with high number logical or analog inputs/ outputs
- ❑ for GSM monitoring and remote control if inputs and outputs are spread in large space with use of PLC network



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