

GSM-Controller, wireless PLC

KLINKMANN

Wireless automation - fast and easy

GSM-Controller is the first compact PLC type controller for wireless automation in mobile phone networks. GSM controller is an independent control unit with its own programmable CPU - the basic unit has 10 digital inputs, 6 digital outputs and one analog input (expansion to max 64 I/O). For local operating GSM-controller has integrated display and keypad. GSM-Controller sends and receives standard GSM text messages containing fixed or variable data and the controller may be remote programmed wirelessly using GSM data connection.

GSM-Controller is connected to GSM-network with TC35T GSM-modem and it can communicate via SMS text messages with mobile phones, with other GSM-Controller units, or in wider systems, with PC running Klinkmann GSM-Control SMS software.

GSM-Controller is programmed with PC using Ladder Editor and the HMI displays are configured with HMI Editor program to create PLC program and download it to PLC. The Ladder Editor allows to test and debug the PLC program, there is a ready subprogram library available for fast application making.



Klinkmann has delivered GSM-Controllers to a wide area of automation applications incl.:

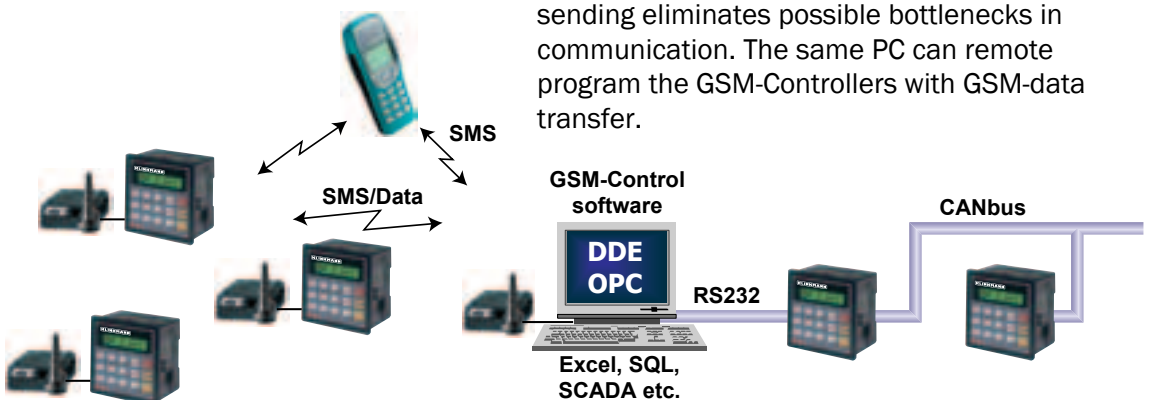
- machine and device controls and remote monitoring
- pumping and water handling applications
- energy and network controls
- building, shop, ventilation, freezer etc. automation systems
- vehicle automation.

GSM-Controller - GSM functions

- sends and receives SMS text messages containing both fixed and variable data
- sends messages to 6 different GSM numbers (phones or modems)
- can route different messages to different numbers
- prevents unauthorized callers
- auto-acknowledges received messages
- up to 1k user-defined messages
- downloading, uploading and updating GSM-Controller's application program with GSM data transfer.

Wireless concept - GSM-Control PC software

GSM-Control PC software configures, transfers, secures, reports and interfaces the text messages of the GSM-Controllers and mobile phones. The PC is connected to GSM-network with a GSM-modem and the text messages may be handled by GSM-Control and/or transferred bi-directionally to Excel, SQL, SCADA etc. via DDE or OPC interface. The structure allows wide covering wireless automation systems; low cost to get started and easy to expand; SMS package sending eliminates possible bottlenecks in communication. The same PC can remote program the GSM-Controllers with GSM-data transfer.



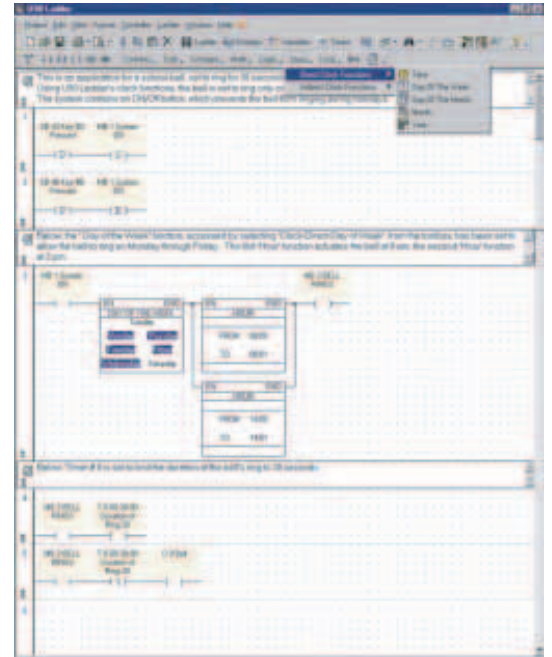
GSM-Controller - technical information

Power	24 V DC
Digital input (24 V)	10 pcs pnp (source)
High-speed counter	last 2 inputs, max 5 kHz, 16 bit
Analog input	1 pc, 10 bit: 0-5 V, 0-10 V, 0-20 mA, 4-20 mA
Digital output	6 relay outputs
PLC program	1024 words
Bits/coils	256
Integers/registers	256, 16 bit
Timers	64
Execution speed	12 µs/instr.
RS232 port	yes
Display	16 illuminated characters
Keypad	15 sealed membrane keys
HMI displays	max 80 different displays
Variables	max 50 HMI variables for data, max 120 text displays
Clock (RTC)	date and time, 7 years battery back-up

Order information

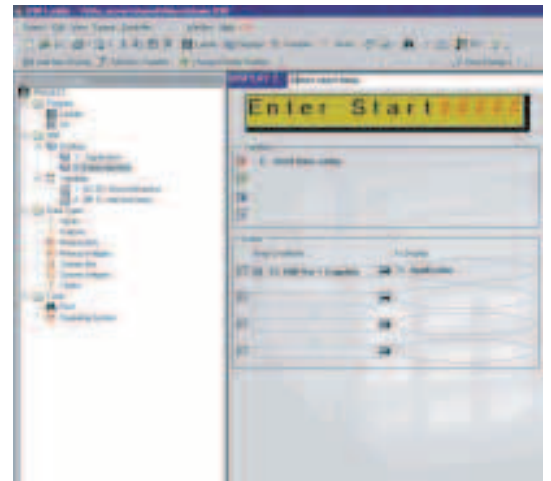
Code	Item
GSMCONTROLLER	GSM-Controller unit, PC Editor software, accessories (see picture)
MODEM-SET	TC35iT GSM-modem, TC35iT power cable, GSM-antenna (magnet), modem↔controller cable (= everything needed to interface GSM-Controller to GSM network)
DR00673	GSM-Control PC software, SMS center with max 3 phone/modem numbers
DR0067	GSM-Control PC software, SMS center with unlimited amount of numbers
CONTROL-PC-KIT	Kit to interface PC to GSM network (TC35iT GSM-modem, socket power supply for TC35T, GSM antenna (magnet), TC35iT↔PC cable)

Each GSM-Controller package includes everything necessary:



PLC Editor PC program configures the control application with conventional PLC type programming.

HMI Editor program sets the HMI displays.



Accessories:

◀ TC35iT GSM-modem and GSM-antenna (incl. 2,5 m cable) with magnet fixing

Application stories, leaflets, manuals, price lists and free software in web:
www.klinkmann.com

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