GSM/ GPRS remote control system

MicroLog is a GSM modem that allows the remote control of any electronic system, it is installed nearby the electronic device you should control, connected to it via a serial port RS485/232 or via analogue or digital input and output. MICROLOG also allows to interact with the remote system by receiving and sending SMS, through which you can activate the relay and monitor the state of inputs.

Product description

MicroLog is an innovative system to remotely control any type of electronic device using a normal GSM mobile phone. With MICROLOG you can:

- Remotely switch on and off electrical devices by sending an SMS or dialing the device
- Detect alarm, sensor, probes status and notify it to the users
- Send SMS, e-mail or ring alarm
- Individually manage of small automation system

MicroLog is fully configurable through setting SMS that allows users to use it in various industrial or domestic application.

Thanks to its RS232 and RS485 serial ports it can me connected to many devices or sensors that support the ModBus RTU protocol and collect data from them. In this case it act as a gateway to the end user or a web based application.



Applications



Level management



Flow measure



Historical trends management



Pumps control

Specifications

CPU

- 32 bits CPU
- 384 kBytes Flash ROM
- 128 KBytes RAM
- 128 kBytes EEPROM expandable to 256kBytes
- Internal buffered RTC

I/0

- I/O LEDs indicator
- 4 digital inputs to connect to a clean contact
- 2 relè outputs 1A 24V
- 2 factory configurable analog inputs (0÷5V, 0÷10V, 4÷20mA, PTC/NTC)
- N. 1 serial port RS232 (DB9 female)
- N. 1 serial port RS485 ModBus (clamp)

MECHANICAL

- Plastic IP41 case for DIN bar
- Dimensions: 90 x 70 x 65 mm
- SMA antenna connector
- POWER AND CONSUMPTION
- Power 9-32VDC/12-24VAC
- Average consumption at 24V: 60mA, 120mA in transmission

Accessories

- Digital and analog expansions connectible to RS485 bus
- High gain signal directional antennas
- USB interface for data storage in pen memory

Internet

Sending SMS,

e-mail and RING

to enabled users

Application example

Data

collection

from plant

- DATALOGGER
- 14336 samples measure
- 30720 samples measure with memory expansion
- Interval sampling resolution from 1 minute to 65535 minutes
- Possibility to select which analog signals must be stored
- Memory circular buffer to don't delete the already downloaded data
- Log of digital input only if changes the state
- Automatic data sending to WEB portal
- Remote data download by modem using RTU-Info software

MODEM

- Dual or QuadBand GSM modem, 900/1800 and 850/1900 Mhz
- SMS, CSD, HCSD e GPRS
- Compatible with AT standard 07.07 e 07.05 commands
- Full Type Approved for phase 2+
- Voice, SMS, data and fax
- Internal SIM case

ENVIRONMENTAL

- Operating temperature: -25°C ÷ +40°C
- Relative humidity: from 0 to 80% without condensate
- Compatible with AT standard 07.07 commands
 - Power device
 - Signal conditioner for probes and sensors (PT100, PT1000, NTC)
 - GPS receivers

Data collection and remote control

- Data collection on the field through analogue and digital input or instrument connect via RS485 bus
- Remote control through relay output
- Alarm notify to enabled users
- Data sending to the WEB portal for elaboration and monitoring

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Data sending to

control center through internet