



Z-GPRS3

GSM/GPRS DATALOGGER WITH BUILT-IN I/Os, TELECONTROL FUNCTIONS, VOICE ALARM

Highlights

- **Power Supply 11..40 Vdc / 19..28 Vac**
- **Backup battery up to 60 minutes**
- **Communication interfaces: Ethernet 10/100 Mbps (RJ45), Serial (RS485 ModBUS Master and S232 / RS485), MicroUSB**
- **Built-in I/Os (4 DI, 2 AI, 2 DO)**
- **Measurements, Alarms, Events, Data logging on Micro SD card (Max 32 GB) or Flash memory**
- **Protocols Support: FTP, SMTP, HTTP, MODBUS TCP, ModBUS RTU**
- **Voice Alarm support**
- **Math Functions**
- **Programmable with SEAL 2.1 and later versions**
- **Compatibility with iOS and Android devices**

Z-GPRS3 is a high performance GSM-GPRS quad band datalogger, with built-in I/Os and Ethernet, RS232 / RS485 and MicroUSB communication interfaces. The device is configured as a Master unit of SENECA Z-PC Line Remote I/O system.

Z-GPRS3 manages measurements, alarms, events, datalogging on Micro SD card (Max 32 GB) or Flash Memory, operating as synchronous or asynchronous data logger. The module supports alarms via SMS, email and voice.

Firmware and configuration upgrade can be carried out locally or remotely via ftp and web server. Since version 2.1 software SEAL (Seneca Advanced Language) allows the GSM / GPRS data logger, in addition to object-oriented programming, to manage control and automation tasks, alarms, thresholds, timers, reports.

It also makes available math functions, filters on ModBUSAlarm, http post / get functions also via Ethernet, PPP support with webserver and ModBUS TCP-IP over GPRS, GSM signal failure alarm, variables and events log both synchronous and asynchronous and more advanced features.

SeAL
Seneca Advanced Language

Z-GPRS3



GSM/GPRS DATALOGGER WITH BUILT-IN IOS, TELECONTROL FUNCTIONS, VOICE ALARM

TECHNICAL SPECIFICATIONS

GENERAL DATA

Power Supply	11..40 Vdc/ 19..28 Vac
Power Consumption	2 W (standby), 6,5 W (max)
Backup battery	Yes (up to 60 minutes)
On/off button	Yes
SD eject button	Yes
Voice Alarm	Yes
Isolation	500 Vac
Protection degree	IP20
LED status indicators	Ethernet I/O Communication (Rx/Tx) GSM Power Supply
Operating temperature	-10..+50°C
Weight	280 g
Dimension	100 x 112 x 35 mm
Mounting	DIN rail
Enclosure	PBT, black

I/O CHANNELS

Digital Input	Nr 4 channels PNP, NPN (counters @32bit up to 30 Hz), max voltage input 30 Vdc
Analog Input	Nr 2 channels, 0..20 mA, 0..30 V, 16 bit
Digital Output	Nr 2 SPDT relay max 2 A 250 Vac

COMMUNICATION

Ethernet	10/100 Mbps (RJ45)
Serial #1	RS485 ModBUS Master, programmable baud rate
Serial #2	RS485/RS232, programmable baud rate on terminal
RS232/RS485 switchable	Yes
USB interface	Micro USB
System protocols	Ftp, Smtp, http, ModBUS TCP, ModBUS RTU

PROCESSING / MEMORY

CPU	K64 120 MHz
RAM	256 kB
Flash (program)	1 MB
Flash (serial)	8 MB
Expadable memory	Slot for Micro SD up to 32 GB
Datalogging	Measurement, alarms, events, data logging on Micro SD card (max 32 GB) or Flash memory; synchronous / asynchronous datalogger

PROGRAMMING

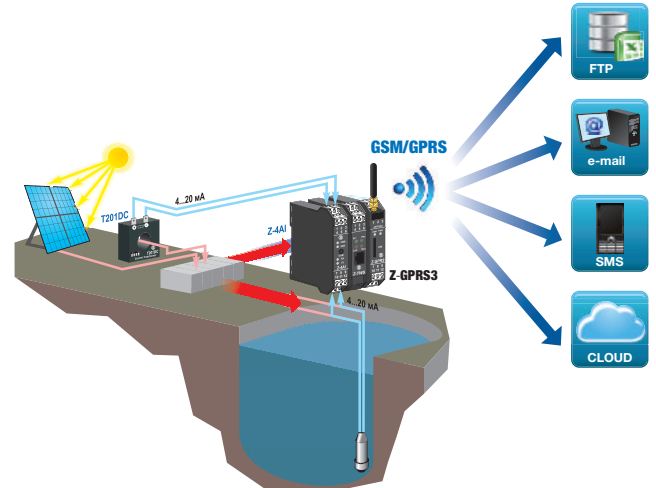
Software environment	SEAL 2.1 and later versions
Libraries and functions	GSM/GPRS data exchange, alarms, commands, events management Log and real-time ModBUS / Ethernet variables, I/O, thresholds, control tasks and bit operations management Firmware and remote configuration update via ftp and webserver ModBUS TCP-IP, ftp and webserver functions supported over Ethernet and modem
Additional Functions	Math functions, filters on ModBUS alarms, post/get http over Ethernet/PPP functions, GSM failure signal alarm

STANDARD

Marking	CE
Norms	EN 301511, EN 301489-1/7, EN 60950

APPLICATION NOTE

GSM/GPRS TELECONTROL PLANTS



ORDER CODES

Code	Description
Z-GPRS3	GSM/GPRS datalogger with built-in I/Os, telecontrol functions, voice alarm
A-GSM	Dual band swing GSM external antenna, cable 3,2 m, SMA
A-GSM-DIR-5M	GSM-DECT-UMTS directive compact antenna
FD01	Photodetector for pulse counting, max frequency 10 Hz
KIT-USB	Programming toolkit for USB interface instruments
MSD	Micro SD memory card with adapter
Z-PC-DIN4-35	DIN rail bus system 4 slot 35 mm
Z-PC-DINAL1-35	DIN rail bus system head terminal + 1 slot 35 mm
CU-A-MINIB-1	USB-A Mini USB-B 5 P plug cable, 1 mt
CU-A-MINIB-2	USB-A Mini USB-B 5 P plug cable, 2 mt