



Z-GPRS3

Highlights

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.

SeAL

Seneca Advanced Language



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, Smtip, 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

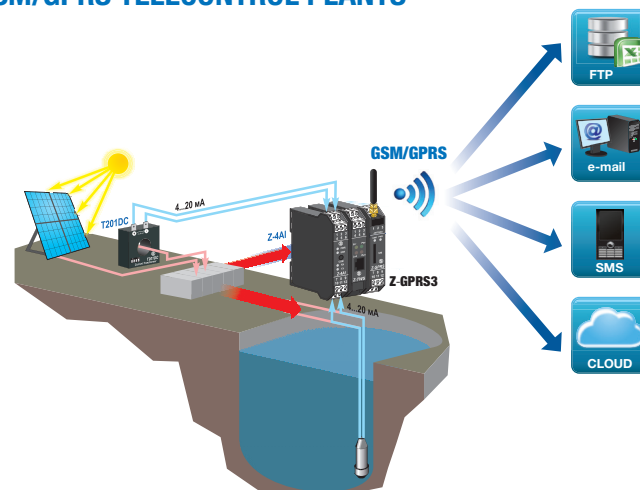
Software environment	SEAL 2.1 and later versions
Libraries and functions	GSM/GPRS data exchange, alarms, commands, events management Log and real-time ModBUS / Ethernet variables, I/O, thresholds, control tasks and bit operations management Firmware and remote configuration update via ftp and webserver 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