Z-GPRS2

GSM/GPRS Remote Controller



- Datalogger
- I/O wireless data acquisition
- Remote alarm control





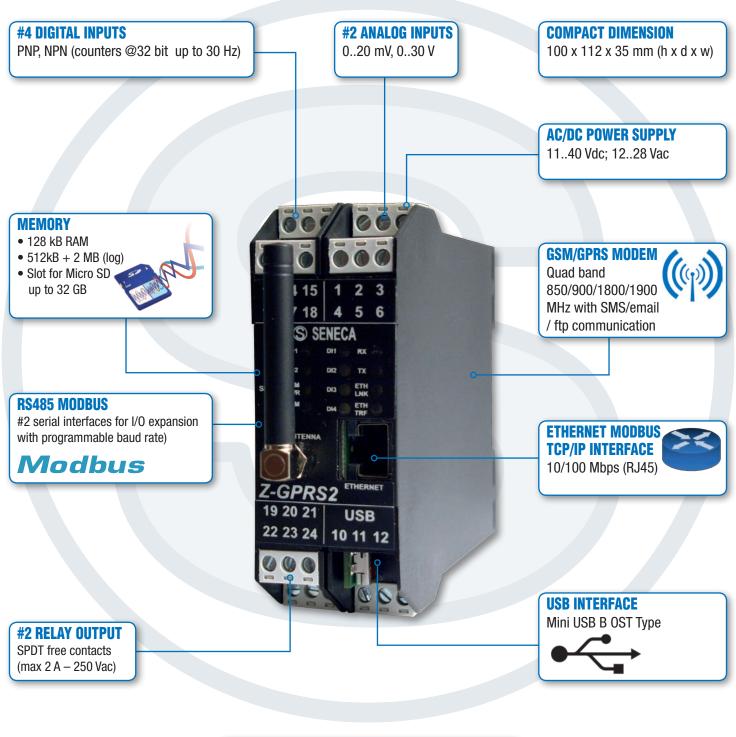






Z-GPRS2 GSM/GPRS datalogger with built-in IO's and telecontrol functions

Z-GPRS2 is a GSM / GPRS, multiprotocol wireless unit, with built-in I/O's for high-performance data acquisition, datalogging, commands, measurements and alarms management. Applications range include: photovoltaic building automation, M2M telemetry communication. It works stand-alone or networked. Z-GPRS2 operate as Master Modbus unit on RS485 serial ports and GSM/GPRS communication support.



REMOTE CONTROL FUNCTION

Alarm Management (SMS, Email, ftp) Datalogging Programmable Logic



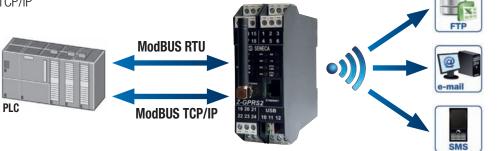
TYPICAL APPLICATIONS

GSM/GPRS REMOTE CONTROLLER

Z-GPRS2 enables connection with different major PLC supporting Modbus RTU or Modbus TCP/IP protocols.

Main functions:

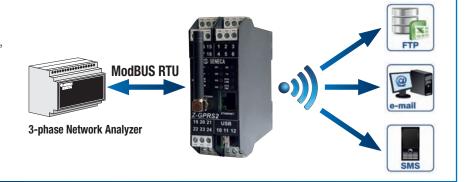
- Logging data and control
- E-mail and SMS sending on limit alarm PLC variable
- . Connecting to ftp server
- Web server



POWER CONSUMPTION MONITORING

Z-GPRS2 can read as well electrical parameters from network analyzers with Modbus interface. The Master function allows the real time recording, the data logging inside the internal memory and SMS / email sending enabled by prefixed scheduling or on event.

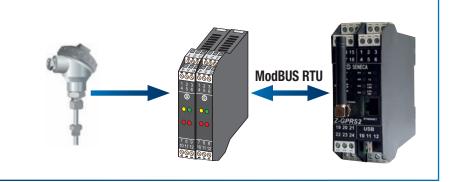
It's the ideal monitoring solution for pumps, electrical motors, electrical devices etc.



WIRELESS DATA ACQUISITION

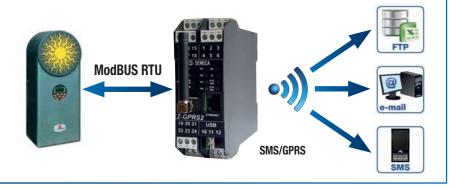
Z-GPRS2 allows reading of analog, temperature, digital signals through any third party remote I/O's. Main functions:

- Logging data and control of external I/Os
- E-mail and SMS sending on limit alarm I/O variables
- · Connecting to ftp server
- · web server



CONTROL OF PHOTOVOLTAIC INVERTERS

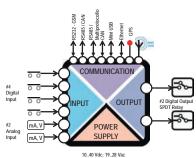
Thanks to the ModBUS serial interface, Z-GPRS2 can be connected to a photovoltaic inverter to ensure correct performance by periodic data detecting (daily, weekly, monthly, yearly). Z-GPRS2 ensures also the remote alarm management and control of energy production. The automatic alarm sending will grant indeed and quick assistance in case of failure.





Z-GPRS2

GSM/GPRS DATALOGGER WITH BUILT-IN 10's AND TELECONTROL FUNCTIONS



TECHNICAL SPECIFICATIONS

GENERAL DATA		
Power Supply	1140 Vdc; 1928 Vac	
Power Consumption	2 W (standby), 6,5 W (max)	
Battery back up	YES	
Isolation	At 500 Vac	
Degree protection	IP20	
Led signalling	Ethernet (activity, link) I/O Communication (RX/TX) GSM Power	
Operating temperature	-10+50 °C	
Weight	280 g	
Dimensions	100 x 112 x 35 mm (hxdxw)	
Mounting	Din rail	
Housing	PBT, black	
I/O CHANNELS		
Digital Input	4 digital inputs PNP, NPN (counters@32 bit up 30 Hz)	
Analog Input	N°2 channels, range 020 mA, 030 V	
Digital Output	N°2 channels SPDT relays max 2 A 250 Vac	
COMMUNICATION		
Ethernet port	10/100 Mbps (RJ45 connector)	
Serial Port #1	RS485, programmable baud rate, IDC 10 back connector switchable on CAN	
Serial Port #2	RS485, programmable baud rate	
USB Port	Mini USB Type	
Protocols	Ftp, Smtp, Pop3, http, ModBUS TCP, ModBUS RTU, custom protocols	

PROCESSING, MI	EMORY
CPU	ARM Processor Cortex M4 100 MHz, 32 bit
RAM	128kB
Flash Memory	512 kB + 2 MB (log)
Datalogging	Measurement, Alarms, Comands on micro SD card (max 32 GB) or on built-in flash memory
PROGRAMMING	
Complete	Graphique language EASY-SEAL
Base	SMS / EMail / Ftp
Libraries and functions	GSM/GPRS data exchanging, alarm management, log data sending, email, sms, ftp, web server, comand on ringing, management of rubric enabled for commands and alarms (up to 270 contacts), commands protected by a password, ModBUS Master.
STANDARD	
Certification	CE
Norms	EN 301511, EN 301489-1/7, EN 60950

ORDER CODES

Code	Description
Z-GPRS2	GSM/GPRS device with datalogger and multiprotocol interface
PM002490	RS232 programming serial cable (DB9F-DB9M)
A-GSM	External GSM antenna, dual band swing, 3,2 m cable
FD01	Photodetector for pulses couting, Max. freq. 10 Hz
Z-PC-DINAL1-35	Back rail 35 mm width modules - Power/Bus conn. + 1 slot
Z-PC-DIN1-35	Back rail 35 mm width modules - 1 slot



