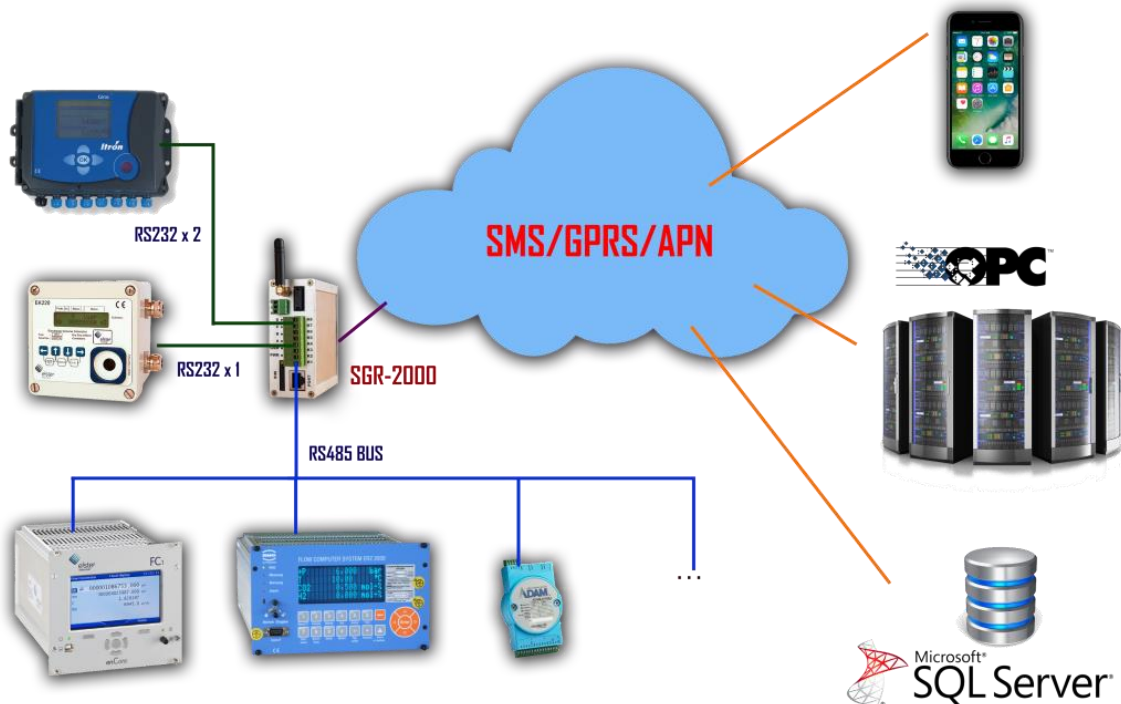# SGR-2000   Industrial GSM RTU

Features

- Ultra Low Power Consumption, Maximum 0.4w in normal mode
- RS232/RS485 Interfaces, 2 x RS232, 1 x RS485
- SMS, GPRS & APN supported, Quad-Bands are supported
- Modbus Master, IFLAG Master and NIGC BCON Slave
- OPC DA Remote Interface with SQL sync mechanism
- Wide Operating Temperature Range: -30 to 70
- IP20, Aluminum housing, Standard Rail-Mount
- Wide Input Power Supply, 10 to 30, Fully Protected
- IEC61000-4-4 (Burst) , IEC61000-4-5 (Surge)

Applications:

- Remote Monitoring of gas volume correctors (Elster, Corus, Itron, Vemmtec, …)
- Remote Monitoring and Data Gathering of Flow Computers (Modbus Master)
- Modbus Master to OPC server on APN/GPRS
- Remote Alarming Systems (SMS/GPRS/APN)
- AMR/AMI
- SCADA & Telemetry Applications for Water, electricity, Oil & Gas
- Industrial GSM Gateway for data transmission on SMS/GPRS/APN
- BMS & Home Automation

Technical Specification

General	Configuration	Configurator Software (Locally or Remotely via GPRS/APN)
		Remote SMS Commands by Admin
	Security	Protected by encrypted password
		Protected by admin user phone number
	Capacity	Up to 40 Analog and 32 Digital configurable Tags
	Cyclic Transmission	24 x different configurable cycles per day to Server/Users
	Online Transmission	Minimum 2 minutes online cycle Transmission to Server
	Users	Up to 16 phone numbers could be defined in 4 groups
	Server	One IP address/Port for OPC server (APN/GPRS)
	Protocols/Interfaces	OPC DA server
	(Server Side)	SQL server interface
	Buffering	Automatic Buffering of data while transmission failure
		Automatic synchronization of buffered data with SQL server
		Capacity for 256 cycles to be buffered
	SMS Text	32 definable SMS text for data transmissions
Serial Interfaces	Physical Ports	2 x Independent 3-wires standard RS232
		1 x 2-wires RS485
	External Supply	2 x External power supply for slave volume correctors
	Protection	Short circuit protection (continues) on RS232/RS485
		Short circuit protection (continues) on Ex supply
		Reverse direction protected (continues) on RS232/RS485
	Protocols	Modbus Master, Corus Actaris, Cegelec BCON, Customized protocols on Request
I/O	DI	2 x DI (Not Isolated) , Dry Contact
	DO	2 x DO (Relay Output / 200mA)
Power Supply	Range	+10 – 30 VDC
	Power Consumption	Normal Mode: 0.4 Watt (12vDC)
		Transmission (APN/GPRS): Maximum 2.0 Watt (12vDC)
	Protection	Internal short circuit is protected (Continues)
		Supply voltage transient surges are protected
		Reverse voltage is protected
Physical	Housing	Aluminum Housing
	Mounting	Standard DIN Rail Mounting
	Dimension	W=41mm, H=100mm, D=102mm
Ambient	Temperature	-30 to +70 degree of Celsius
	Humidity	5 ~ 95 % non-condensing