

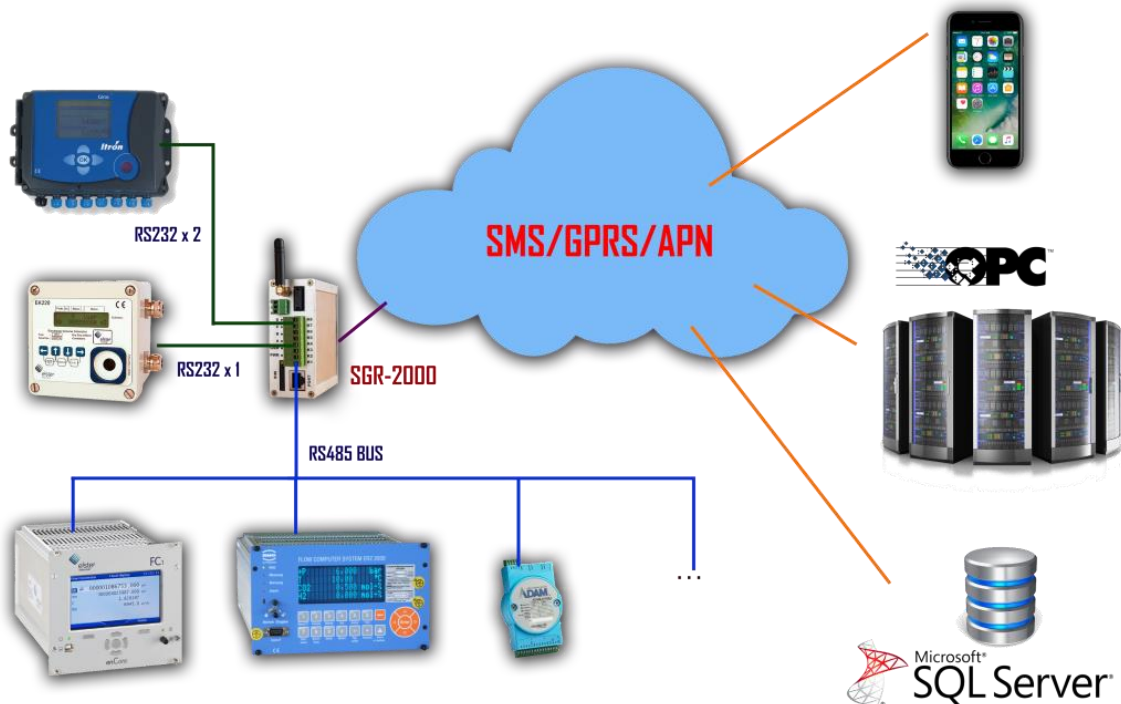
# SGR-2000

# 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

<b>General</b>	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 (Server Side)	OPC DA server 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	
<b>Serial Interfaces</b>	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
Protocols	Reverse direction protected (continues) on RS232/RS485 Modbus Master, Corus Actaris, Cegelec BCON, Customized protocols on Request	
<b>I/O</b>	DI	2 x DI (Not Isolated) , Dry Contact
	DO	2 x DO (Relay Output / 200mA)
<b>Power Supply</b>	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
<b>Physical</b>	Housing	Aluminum Housing
	Mounting	Standard DIN Rail Mounting
	Dimension	W=41mm, H=100mm, D=102mm
<b>Ambient</b>	Temperature	-30 to +70 degree of Celsius
	Humidity	5 ~ 95 % non-condensing