

# RTU SERIES

# GRC3300

REMOTE TERMINAL UNIT



PLC

DATALOGGER

GATEWAY

PROTOCOL CONVERTER

GRC3300 has three sleep modes with optional 24V DC output for sensors that leads to use only one power supply or battery. Single battery usage along with active sleep mode makes it is possible to achieve low power application needs.

**GRC3300 HAS 1 ms TIME RESOLUTION FOR EVENT LOGGING SO THAT SPECIAL CIRCUMSTANCES LIKE SEQUENCE OF EVENTS CAN BE EASILY MONITORED. IN NORMAL TEMPREATURES EVENTS CAN BE RETAINED UP TO 200 YEARS .**

GRC3300 used in wireless M2M, remote monitoring, logging and low power applications with sleep functions and high reliable retention times (up to 200 years) for fast changing signals with  $\pm 1$  ppm RTC resolution.

DNP3

2G/3G/LTE

$\pm 1$  ppm RTC

12-16 BITS RESOLUTION

SLEEP MODE

24V DC OUTPUT OPTION

RTC RETENTION >10 YEARS

REMOTE UPDATE

MODBUS-DNP3 CONVERTER

## FEATURES

### SLEEP MODE

- Low supply voltage(adjustable)
- Time of day
- Interval

### IO INTERFACE

- Digital inputs(x4) , outputs(x3)
- 0-20 mA inputs(x2)
- 0-10 V input(x1)

### FREQUENCY

- G: 900/1800 MHz
- H: 850/900/1800/1900MHz(2G)  
Band I,II,IV,V,VI,VII(HSPDA+)
- L: 900/1800 MHz(2G)  
1800/2600/800(3,7,20)(LTE)

### SENSITIVITY

- G: -106 dBm
- H: -111dBm
- L: -111,-104,-105 dBm (3,7,20)

### DATA SPEED

- G: 85.4 Kbps
- H: 21.1 Mbps
- L: 10.3 Mbps

### PLC FUNCTIONS

- AND,OR,XOR,XNOR,NAND,NOR
- TIMER,COMPARE,SCALE
- SETREGISER

### DNP3 SUPPORT

- CLASS 0 data
- CLASS 1,2,3 events
- APP.FRAG.SIZE:2048 bytes
- DATALINK SIZE: 292 bytes

### SUPPLY VOLTAGE

- 6,5 - 28V DC

### OPERATING TEMP.

- -40 - +85 °C

### OPTIONS

- GRC3300-XY-BB X:G/L (GPRS or LTE) Y:D/O (DC OUTPUT or NO OUTPUT) BB:12/14/16 BITS

## KEY BENEFITS

- High precision measurement up to 16 bits resolution.
- I/O monitoring,programming and communication features are implemented in one device so that the overall cost of application will be reduced.
- The sleep feature will extend the battery life.
- 18684 measurement data can be logged and will be retained even power loss.
- Because of two seperate TCP/UDP connection capability, different locations can monitor and control the device.
- Based on industrial DNP3 protocol for real- time based applications.
- With 24V DC output, up to two 0-20mA sensors can be supplied without using external supply.
- Additional on-board I/O may be used to control several inputs/outputs in the field.
- Firmware can be updated remotely by setup application.
- IO expansion is available with AFM1 200 devices up to 16xDI,12xD0, 4x4-20mA, 4x0- 10V input via RS485 interface.
- Real-time clock can be obtained from GSM or any timeserver with additional synchronization settings.
- Minimum 1ms time resolution of events.
- Up to 8 Modbus RTU devices can be monitored over DNP3 protocol as implementing the protocol converter feature.