- Fits 100% with your application needs

- Selectable:
  - ✓ I/O type
  - ✓ I/O quantity
  - ✓ RS232/485/Eth
  - ✓ Enclosure type
  - ✓ HMI type
  - ✓ Mounting
  - ✓ Powering

- Communication:
  - ✓ SMS
  - ✓ GPRS
  - ✓ Modbus RTU M/S
  - ✓ Modbus TCP

- Reliable:
  - ✓ Made in Finland
  - ✓ 20.000+ RTUs
  - ✓ -30…+70°C

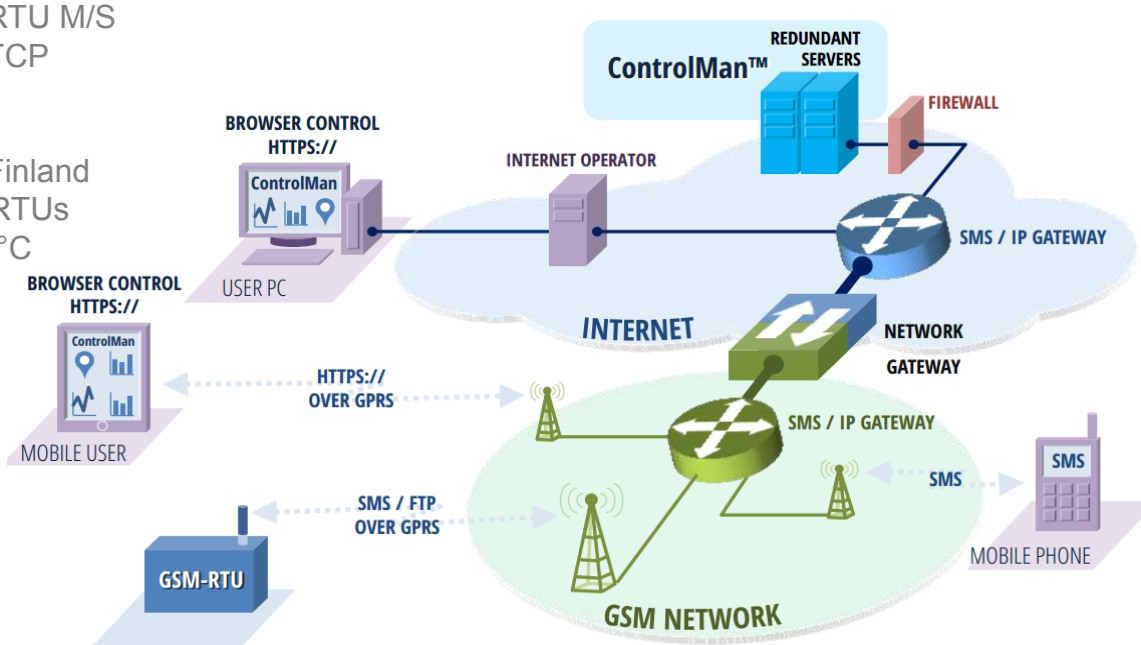
AutoLog® 20 GSM-RTU

Overview: AutoLog GSM-RTUs controllers together with the AutoLog ControlMan Cloud SCADA service offers a winning combination for today's remote monitoring and controlling applications and easiest way to realize Internet Automation Cloud SCADA system! AutoLog® GSM-RTU (Remote Terminal Unit) controllers combines traditional Programmable Logic Controller (PLC) features with build-in and advanced GSM / GPRS / SMS features. AutoLog GSM-RTUs can be used also with Indusoft Web Studio SCADA.

Operation: AutoLog GSM-RTU and -ControlMan brings measurements and -controls from field devices to web browser. The service can be opened anywhere with normal web browser - without any software installations. Users just login to service to monitor and control their widely located remote assets. Same real-time field information can be shared with hundreds of colleagues around the world.

Benefits: Complete solution directly from hardware manufacturer and software project designer. Reliable solution based on almost 40 years experience and 20.000+ supplied RTU controllers and solutions. Advanced and modern turnkey SCADA solutions. (Traditional-, Web- and Cloud SCADA systems) Uses existing and "multi redundant" Internet network for communication and SCADA sharing, can be used anywhere without any SCADA software installations. Uses existing and global GSM network. Both GPRS and SMS can be used for communication. Care free, unlimitedly scalable and very long life span solution. 10 years spare part guarantee.

CONTROLMAN NETWORK ARCHITECTURE



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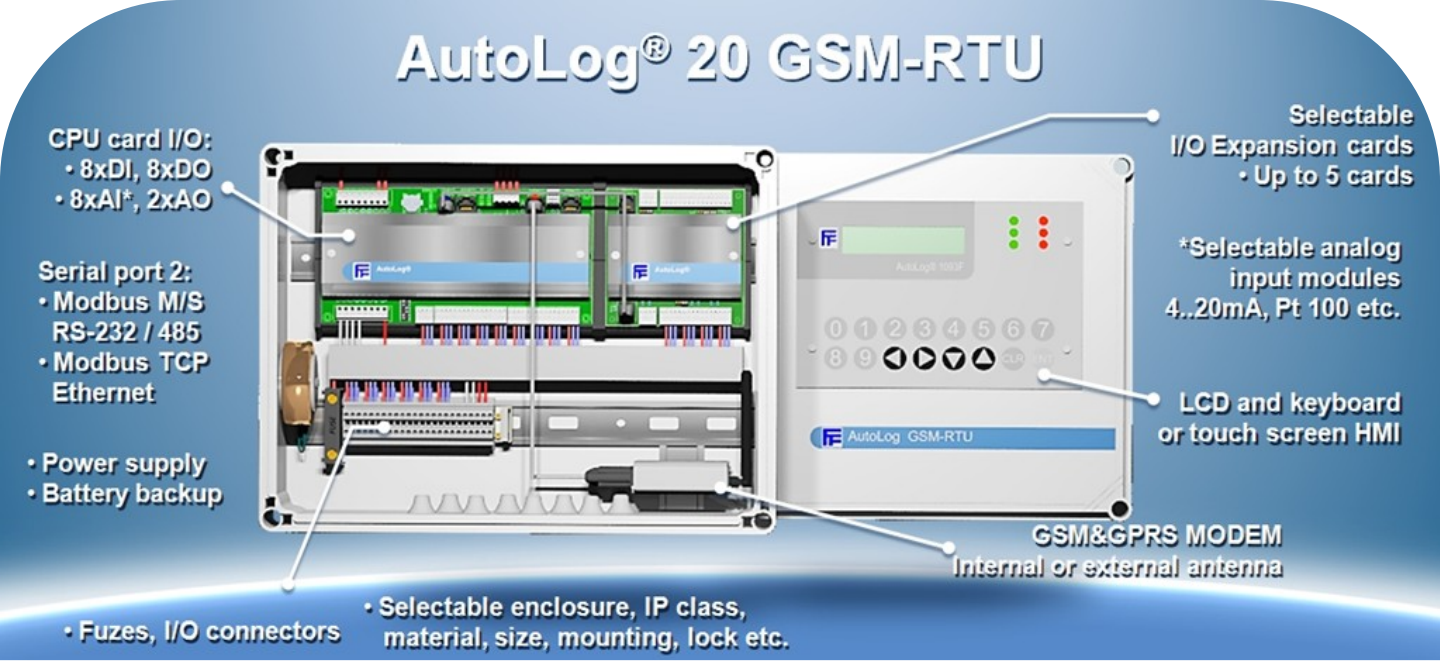
AutoLog® 20 GSM-RTU



AutoLog 20 GSM-RTU (Remote Terminal Unit)

Features	Description
Analog inputs (on CPU card)	0-8 analog inputs, resolution:12 bit (0-4000), freely selectable analog input modules for every input point: 4..20mA, 4..20 Isolated, Pt100 (-50..150 C / 0..500 C / -250..750 C), 0..5mA, 0..20mA, KTY10 (-50..150 C), NTC (-5..50 C), 0..2V, 0..5V, 0..10V, -10..10V, RMS 40VAC/25VAC/ 0.25VAC, etc. Ask more! One analog input can be changed to two extra digital inputs with "AI2DI" module. Special AutoLog "Any to 4..20mA Transmitter" 3-way isolated analog input modules can be connected to 4…20mA analog inputs. Please ask separate data sheet!
Digital inputs (on CPU card)	8 (24) digital inputs, 24VDC, max 8mA, opto-isolated, PNP. One analog input can be changed to two extra digital inputs with "AI2DI" module so the maximum is 8+16=24 digital inputs (on CPU card).
Digital outputs (on CPU card)	8 digital outputs, 24VDC, max 2A, group max 4A, NPN. Optional relays can be connected to the digital outputs and installed on DIN rail.
Analog outputs (on CPU card)	2 analog outputs, 0-5V / 0-10V define when ordering, 12 bit resolution. Also 4..20mA output on special request.
I/O Expansion cards	Connected to I2C bus. There are two I2C busses on CPU card. Up to five cards can be powered via I2C bus, ask more! Maximum total I/O count is 72AI / 34AO / 72DI / 72DO, ask more! I/O expansion cards are explained in the next table.
Serial port 1	RS232, for GSM modem / for programming with AutoLog GsmProgrammer software. RJ45 plug-in cable connector, Speed 9600 bps.
Serial port 2	RS232 / Opt. RS485 with plug-in module / Opt. Ethernet with plug-in module. Modbus RTU / Modbus TCP protocol, Master / Slave, speed: 300-57600 bps, This serial port can be used e.g. for connecting with PLC/HMI/SCADA/DCS or AutoLog Wireless I/O & Sensor Network or any Modbus device(s) like intelligent meter(s) or actuator(s).
GSM/GPRS modem	Uses external GSM modem which is connected to serial port 1 with a cable and powered with the same power as CPU card. Supports both GPRS and SMS messages, build-in place for SIM card, one indication LED on the modem indicated the modem's status. Selectable GSM antenna type. (SMA)
HMI (optional)	AutoLog keypad & LCD HMI (optional, many types, ask), can be connected through CPU card's I2C bus. HMI functions and display can be programmed to application program. HMI can be embedded e.g. to enclosure cover. Touch screen HMI (optional, many types) can be connected to serial port 2 using modbus protocol.
Powering	CPU card 12-30VDC / 12-24VAC, with external power 230VAC/110VAC/ask/specify. CPU card has power output 12/24VDC which can be used for powering GSM modem or other accessories like relays, HMIs, backup batteries etc. Power output can be equipped with external over charge protector for battery / accumulator systems.
Programming software	AutoLog GsmProgrammer (Windows), 512 programming lines, timers, pulse counting, alarm limits, RTC clock events, average, plus, minus, multiply, division, scaling, advanced SMS generation, FTP file data logging and sending, Flash memory read / write, battery backup, build-in PID controllers, incoming phone number identification, if-then clauses, multible commands in one programming line, phone book, iButton, HMI funtions, diagnostics etc. Basically GSM-RTU can control e.g. whole water purification process plant and communicate with SCADA servers.
Program maintenance	Program can be downloaded and uploaded via programming cable or remotely via GSM network. Tag values, RTC time, etc. can be asked and set locally or remotely via GSM network.
Battery backup & RTC. Flash	Battery backup for real time clock and calendar and program memories. Flash storage for application program and memories.
Indication LEDs	LEDs for serial ports Rx/Tx, GSM modem, digital inputs and outputs, RUN
Jumpers and DIP switches	4 jumpers and 6 DIP switches with advanced features.
Environmental	Storage temperature: -40…+80°C, Operating temperature: -30…+70°C, Relative humidity: 95% non-condensing, EMC: Immunity according to EN50082-2 & EN 50082-1, Emissions according to EN50081-1 & EN50081-2
Size and weight	W x h x d : CPU card 220 x 125 x 65 mm, weight CPU card: about 0.3kg. GSM-RTU's enclosure size is selectable and depends on the accessories.
Enclosure	Several options: No enclosure, IP Protection class up to IP 68, Material: ABS / Polycarbon / Stainless steel, Explosive area classification, size, mounting: screw to wall, side of pole, Cover: 4xscrews, 2xscrews+hinge, lock&key, lock&standard tool, etc.

I/O EXPANSION CARDS:

AL20 DI16 (900775)	16 x Digital inputs, 24VDC, max. 8mA, potential free contact, PNP
AL20 DI64 (900773)	64 x Digital inputs, 24VDC, max. 8mA, potential free contact, PNP
AL20 DO32 (900772)	32 x Digital outputs, 24VDC, max. 1A, NPN
AL20 RIO8 (900765)	8 x Digital inputs, 24VDC, max. 8mA, potential free contact, PNP 8 x Relay outputs 24-230VAC, max. 3A
AL20 RO16 (900779)	16 x Relay outputs, 24-230VAC, max. 3A
AL20 EXA 8/4* (900837)	8 x Analog inputs (plug in analog input modules are not included) 4 x Analog outputs

Contact us for order information:

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