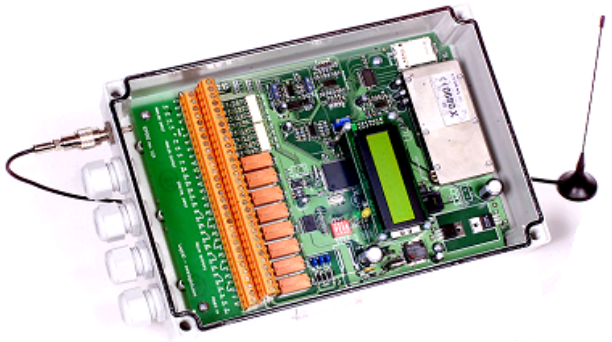
RTCU-MAX-SA

Remote Telemetry and Control Unit

The RTCU-MAX is the most advanced unit in the RTCU product line with an impressive list of features and possibilities. The product is a unique combination of a powerfull Programmable Logic Controller (PLC) and a GSM phone tightly connected in a single easy programmable unit. The RTCU-MAX product provides the user friendly answer to your remote monitoring, remote control, surveillance and datalogging needs.



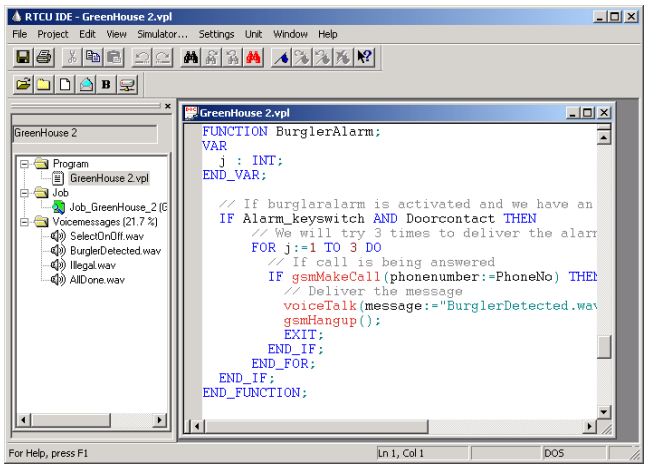
The RTCU-MAX product allows rapid development of custom specified applications combining control / monitoring / datalogging with advanced communication techniques such as voice / DTMF interaction (voice response systems), alarm/messages send to / from the unit as SMS messages or via data-transfer directly to / from a Windows application. The product includes a user-friendly Integrated Development Environment (RTCU IDE) running under Windows where the complete application is developed and finally transferred to the unit via a standard serial port, or alternatively using the GSM data transfer capability.

The unit is programmed in a PLC language called VPL based on the ST language from the international standard IEC1131-3. This language is very easy to learn and can be compared to BASIC / PASCAL but with a number of facilities to allow easy development of PLC-like applications. Voice-messages are also created within the environment by the use of a simple microphone and a soundcard in the PC. The RTCU IDE environment also includes a very sophisticated simulator so that the application can be executed and debugged under Windows - before being transferred to the physical unit !. From the VPL language all the resources on the platform is easily accesible, such as: send / receive SMS-messages, receive / initiate GSM calls, voice, DTMF interaction, Realtime clock, datalogging as well as low level functions such as Timers, up / down counters, edge triggers etc. As an option a support package for data-transfer is available that allows easy data-transfer to / from the unit from within a standard Windows application.

Stay ahead and choose the Logic IO RTCU-MAX product when dealing with advanced and flexible GSM based control/monitoring/datalogging applications!

Some of the application areas includes:

- Surveillance of industrial equipment
- Remote site control and data aquisition
- Dataloggers
- Process monitoring and reporting
- Alarm / Security systems
- Mobile applications using optional GPS module



The RTCU-IDE Integrated Development Environment for the RTCU, is an easy-to-use program for all aspects in the development of applications for the RTCU. The RTCU-IDE contains a broad range of features, such as project control, comprehensive online help, built-in syntax highlighting editor, code generating wizard, voice recorder etc. A built-in simulator, enables complete simulation of all features on the actual RTCU: GSM phone, SMS messaging, LCD Display, Analog / Digital I/O etc. A remote update feature allows the application developer to download new versions of a program or voice messages to a remote RTCU, via a simple telephone modem connected to the PC. Together, all of these features enables the user to cut development time to a minimum.

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Key features:

- 8 Digital inputs, galvanically isolated
- 8 Relay outputs
- 4 Analog inputs (each selectable voltage or current)
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- GSM Phone for voice, data, SMS, fax, email etc.
- Real Time Clock with battery backup
- 3 User defined dipswitches
- 4 User defined LED indicators
- Built-in charger for battery operation
- Supervises supply voltage, Battery voltage and current
- RS232 Serial port (110 bps to 115 Kbps)
- Standard SIM card reader
- 64 Kbyte storage for VPL programs
- 4 Kbyte storage for user variables
- 64 Kbyte storage for strings
- 110 seconds storage for voicemessages
- Maximum of 128 seperate voicemessages
- 512 Kbyte for datalogging
- 16 simultaneous VPL jobs operating in one of two priorities
- Optional LCD Display (2x16/4x20 characters, w/backlight)
- Optional temperature sensor onboard

		Min		Max		
Analog inputs	Voltage mode	0	-	+10	VDC	Resolution is 10 bits. All inputs are protected against transients and lowpass filtered.
	Current mode	0	-	+20	mA	

		Min		Max		
Analog outputs	Voltage mode	0	-	+10	VDC	Resolution is 10 bits. All outputs are protected against transients.
	Current mode	0	-	+20	mA	

		Min	Typ	Max		
Digital inputs	Logic ”High”	8	10	40	VDC	All inputs are protected against transients and lowpass filtered
	Logic ”Low”	-5	-	5	VDC	

	Min		Max		
Digital outputs (Relay DPST)	-	-	5	Amp	At 250 VAC
	0.01	-	5	Amp	At 30 VDC

	Min	Typ	Max		
Power supply	12	-	28	VDC	Selectable between AC and DC supply, protected againts wrong polarity and self healing fuse
	12	-	18	VAC	
Power consumption	90	160	300	mA	At 24 VDC supply voltage

Protection	IP67			The enclosure contains a sealed TNC female connector for GSM antenna, and 4 PG13.5 cable glands for cable entrys
External dimensions	W 180 x H 280 x D 60 mm			
Storage temperature	-40		+90	ºC
Operating temperature	-20		+45	ºC
Approvals	EN-50081-1 Emission EN-61000-6-2 Immunity			Unit is CE approved

Technical data subject to change

For more information:

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Distributor:

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