

RTCU-A6 MAX

Remote Telemetry and Control Unit

The RTCU-A6 MAX offers an impressive list of features and possibilities. The product is a unique combination of a powerful Programmable Logic Controller (PLC) and a GSM phone tightly connected in a single easy programmable unit. The RTCU-A6 MAX product provides the user friendly answer to your remote monitoring, remote control, surveillance and datalogging needs.



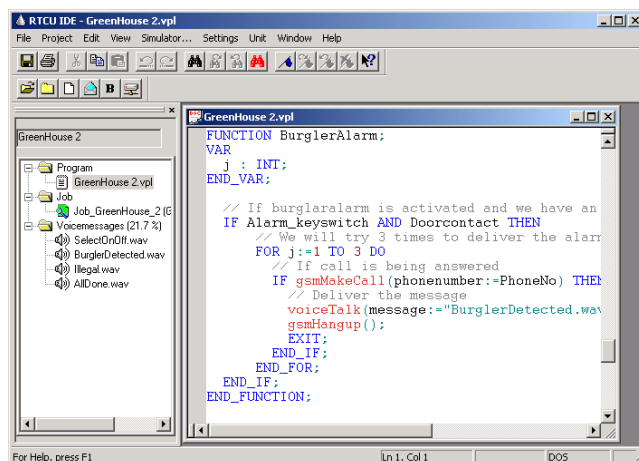
The RTCU-A6 MAX product allows rapid development of custom specified applications combining control / monitoring / datalogging with advanced communication techniques such as voice / DTMF interaction (voice response systems), alarm/messages send to / from the unit as SMS messages or via data-transfer directly to / from a Window 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 available as a standard feature..

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-A6 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
- ❖ Remote Meter Reading
- ❖ 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, 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:

- ❖ 4 Digital inputs, galvanically isolated
- ❖ Inputs can be configured as relay input (contact closure)
- ❖ 4 Relay outputs. 230V/5A
- ❖ 4 Analog inputs, 0..5VDC
- ❖ 4 Analog outputs, 0..5VDC
- ❖ GSM Phone for voice, data, SMS, fax, email etc.
- ❖ Real Time Clock with battery backup
- ❖ 3 User defined dipswitches
- ❖ 4 User defined LED indicators
- ❖ Supervision of supply voltage (DC)
- ❖ RS232 Serial port (110 bps to 115 Kbps)
- ❖ Standard SIM card reader
- ❖ Power-fail detection with up to 600 ms execution time.
- ❖ 64 Kbyte storage for VPL programs
- ❖ Upto 3 Kbyte storage for user variables
- ❖ 64 Kbyte storage for strings
- ❖ 110 seconds storage for voicemessages
- ❖ Maximum of 128 separate voicemessages
- ❖ 512 Kbyte memory for datalogging.
- ❖ 16 simultaneous VPL jobs operating in one of two priorities
- ❖ Optional RS485 multidrop network

Analog inputs	Min		Max		
	0	-	+5	VDC	Resolution is 10 bits. All inputs are protected against transients and lowpass filtered.
Analog outputs	Min		Max		
	0	-	+5	VDC	Resolution is 10 bits. All outputs are protected against transients and lowpass filtered.
Digital inputs	Min	Typ	Max		
	Logic "High"	8	10	40	VDC
Logic "Low"	-5	-	5	VDC	
Digital outputs (Relay SPST)	Min		Max		
	-	-	5	Amp	At 250 VAC
	0.01	-	5	Amp	At 30 VDC
Power supply	Min	Typ	Max		
	11	-	15	VDC	Selectable between AC and DC supply, protected against wrong polarity. Self healing fuse. 230VAC is fused.
		230		VAC	
Power consumption	90	140	250	mA	At 12 VDC supply voltage
Protection	IP67				The enclosure contains 3 PG9 cable glands for cable entries. External SMA female connector for Dual band (900/1800 MHz) GSM Antenna.
External dimensions	W 130 x H 180 x D 50 mm				
Storage temperature	-40		+90	°C	
Operating temperature	-20		+50	°C	
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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