

TECH SHEET

RTS

Remote Telemetry System from RKI Corporation

NEMA 4X. (IP66)

ratings, the RTS'

enclosure has a clear.

allowing easy viewing

tampering or accidental

experience with the RTS

you to contact us today to discuss your specific

than IACD. We invite

lockable front cover

and prevention of

exposure to

conditions.

environmental

No one has more

RKI Corporation's Remote Telemetry System (RTS) offers a powerful, flexible solution that can expand as your application

requirements grow. Configured with ISaGRAF IEC 61131-3 programming software, the RTS provides 32-bit processing capabilities that can support Ethernet, serial, wireless, hard wire, or dial up communications, as well as voice pager and email alarm annunciation.

The RTS is equipped with a low power industrial supply with a standard 85 to 265 VAC/ 110 to 330 VDC power input, or optional 24 VAC/ VDC ±15% or solar power.

The RTS maintains two RS-232 serial ports; the second is configurable for use as RS-485. A 10BaseT high speed Ethernet communications port and an additional, optional internal communications port (RTS-D and RTS-W) which may be ordered as a spread spectrum radio (900MHz or 2.4GHz) or a 56K telephone modem. Utilizing the optional internal telephone modem provides alarm dial out and remote dial in capabilities over a secure communication link. By using the optional built in spread spectrum radio and the proper field installation, you can develop extensive remote wireless networks, fully capable of providing localized control, telemetry, or peer-to-peer communications.

RIS

Remain Telemetry System

RKI Corporation

Supporting industry standard protocols such as Modbus, Modbus TCP/IP, the RTS can be easily integrated into existing factory Local Area

Networks (LANs) and SCADA systems, including all of the top HMI software

packages (Wonderware, Intellusion, Iconics). No special drivers are needed. Point-and-click, MMI interface, and other tools provide powerful, yet easy to use configuration capabilities and eliminate the time and expense of complex programming.

Programmable Logic

Remote Program Updates

Email with attachments

Ethernet and Web Server

Data logging, alarm logging and paging functions

Built-in Analog/Discrete I/O, HMI/MMI, 32-bit Math and PID Control

I/O Expansion to 8000 points

3 year factory warranty

All company and product names are the property of their respective holders. Specifications are subject to change without notice.

Glance.

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Designed

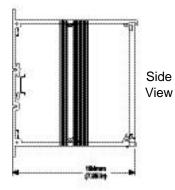
to meet

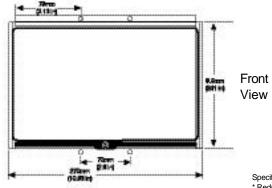
needs.

Process Contro

RTS SPECIFICATIONS

Universal (Analog/Discrete) Inputs		Communications Options (one only per controller)	
Quantity	8 / 4*	Internal Spread Spectrum Radi	
Analog Input Signals			115Kbaud
Voltage	0 or 1 to 5Vdc		2.4GHz, 0.5W, up to
Current	0 or 4 to 20mA		115Kbaud
Resistance Temperature Sensor	0 to 65K ohms 10K thermistor (Type I & II)	Telephone modem with voice	56K Baud, PC compatible
Discrete Input Signals	Dry Contact Closure		
Discrete InWetting Current	0.5mA (10K resistor to 5Vdc)	Control & Communications Pro	ocessor
Discrete inwetting Current		CPU	Intel 386EX, 25MHz
Input Overload Tolerance	Input current limited to 50mA	Memory	2MB Flash, 1MB RAM
Input Overload Tolerance	Input Voltage limited at 6Vdc	Real Time Clock	Dallas DS1689S (PC
Overload Transient Protection	Transorb/Self Resetting		compatible)
Ovendad Transient Protection	Polyfuse		companise)
		Input/Output (I/O) BISC Process	
Analog resolution	10 bits (1 part in 1024)	Input/Output (I/O) RISC Process	
Analog Non-linearity	0.5 LSB (0.05%)		Atmel ATMEGA16
Temperature Coefficient		memory	16KB Flash, 1KB RAM
5Vdc 20mA and Thermistor	100ppm (0.1 LSB) per °C 125ppm (0.125 LSB) per °C	Software	
DI Pulse Counting Rate	up to 500Hz (50% DC)	IEC 61131-3 (ISaGRAF)	Ladder Diagram (LD) Structured Text (ST)
		1	Sequential Function Chart SFC)
Analog Outputs			Functional Block Diagram (FBD)
Quantity	3/2*		Instruction List (IL)
Output type	0 or 4-20mA		Flow Chart
Resolution	10 bits (1 part in 1024)	C/C++	Supports Borland v3.1 -5.0
Overload/Transient Protection	Transorb/Self Resetting		w/ control and
	Polyfuse		communication
		SCADABuilder	point-and-click
Discrete Inputs			configuration of Serial
Quantity	12 / 10*		communications Modbus RTU,
Input type	Optically isolated with 8/2		Master or Slave Bricknet (peer-
	split shared isolated		to-peer SCADA)
	commons, AC/DC	Ethernet Communications	Modbus TCP/IP, HTTP, FTP,
ON/OFF input levels	9Vac/Vdc (min)/ 6VacVdc	Oireanta MANAL	
	max	Simple MMI	ANSI/VT100 -serial data links, Telnet over Ethernet
Max. input level	50Vac/Vdc	Data and Alarm Logging	up to flash memory capacity
Max.DI Pulse Counting Rate	DI1 to 8: 40Hz, D19 & 5KHz	Data and Alarm Logging	up to hash memory capacity
		Power	
Discrete Outputs	0 / 4*	Input voltage range	85-265VAC (47-440Hz)
Quantity	8/4*		110-330VDC
Output type	Relay, Form A		(optional 24VAC/VDC)
	(normally open)		
Output rating		Enclosure	
AC	250Vac; 10A load@125 Vac	Dimensions	height: 9.5" (241mm)
DC	30 Vdc; 5A load@30 Vdc		length: 10.65" (270mm)
• • •		1	depth: 7.25" (184mm)
Communications			
Serial Port Interfaces		Operating Conditions	
COM #1 and COM #2	RS-232, 9 pin D Male	Operating Conditions	40°C to 175°C
COM #2 only	RS-485, 2-pin Terminal Block	Temperature	-40°C to +75°C
Ethernet Port	10Base-T (10 Mb/sec),		(-40°F to 167°F)
	RJ-45	Humidity	5-85% RH (non-condensing)





Specifications subject to change without notice. * Reduced I/O count when ordering dial-up and wireless versions



PRICE SHEET

Domoto Tolomotr	Suctor	Model
Remote Telemetry	Jaysten	INDUEL

		RTS-E Ethernet/Serial	RTS-D _{Dial-up}	RTS-W Wireless
Power	Standard	\$1,260.00	\$1,695.00	\$2,495.00
	24V	\$1,195.00	\$1,640.00	\$2,430.00
	Solar	\$2,545.00	\$2,995.00	\$3,775.00

Accessories/Services

Line Modems Requires a 12" RTS enclosure
Fiber Converters Requires a 12" RTS enclosure
Lightning Arrestors
Antenna Yagi Omni directional
Coaxial Cable 50 feet 75 feet 100 feet
IACD Configuration

A larger, 12" enclosure is required to accommodate line modems or fiber converter options with the RTS.

When ordering, specify the model, power and accessories. Use the samples shown below to guide you.

Contact IACD for pricing on acessories and other services.

Sample: Model / Power / Accessory

RTS-E / 24V / None

RTS-W / Solar / Lightning Arrestor

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