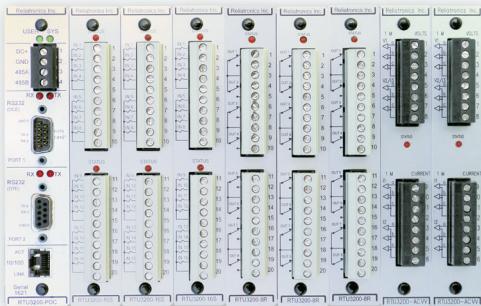


5-bay chassis RTU3200.

# Reliatronics RTU3200

## Product Data Sheet



9-bay chassis RTU3200.

**The RTU3200 is a modular remote terminal unit that consists of a main processing module and various input/output (I/O) modules—all connected via a high-speed bus.**

The RTU can be configured with a five-module chassis or a nine-module chassis, depending on the number of analog and digital inputs that are required for a customer's application. Its modularity allows the customer to specify I/O as needed for the application. The modular RTU can be expanded as an application grows.

RTU3200 modules employ a high-performance, 32-bit Advance RISC Machine (ARM) processor and an active-energy management function, resulting in a system that minimizes power consumption and heat generation. In addition to digital outputs and reporting statuses and analog values, the RTU will calculate RMS voltage, watts, VAR, phase angle, THD, and power factor. RTU3200s can be configured to poll other end devices via DNP, and these points will be reported alongside those of the RTU.

### RTU3200 Standard Module Configuration

- Processor module
- 8 relay output module
- 16 status inputs module
- 12 AC analog inputs module—voltage and/or current
- Blank position for adding another module

### The RTU3200 features:

- Conformal-coated printed circuit boards for protection in harsh environments
- Powerful, yet low-power consumption processor
- 10-30VDC power supply
- DNP 3.0, Modbus, and PG&E protocol support
- 10/100 Base-T Ethernet port with RJ-45 connector
- Two RS-232 ports and an RS-485 connection
- Choice of high-impedance or low-impedance AC analog input modules and DC analog input module
- Programmable logic via a C-style interface



The RTU3200 in a submersible enclosure monitoring current on all phases of 10 circuits (30 analog inputs).

## RTU3200 Technical Data

<b>Physical</b>		<b>Digital Input Module (RTU3200-16S)</b>
Dimensions		
5-bay configuration	6.25" x 6" x 3.75"	
9-bay configuration	10.25" x 6" x 3.75"	
Operating temp range	-40°C to 85°C	
Operating humidity	100%	
<b>Processor Module (RTU3200-PDC)</b>		<b>Analog Input Module (RTU3200-ACVV or ACVI)*</b>
Input voltage	10-30VDC	Number of analog inputs 12/module
Power requirement	< 1W	Input range to 160VAC, 10A
Communication ports	1 x RS-232—Male DCE 1 x RS-232—Female DTE 1 x RS-485—screw terminals 1 x RJ-45 Ethernet 10/100 Base-T	Power requirement 25mW
Serial port BAUD rate	Configurable, 300-38,400 bps	Configuration 6 VI and 6 CI or 3 VI and 9 CI
Ethernet protocol support	TCP/IP, UDP	Resolution 24 bits
Visual Indicators	RX/TX and Ethernet active LEDs	Accuracy 1%
<b>Digital Output Module (RTU3200-8R)</b>		Voltage input impedance 1MΩ
Number of digital outputs	8/module	Current input impedance 0.015Ω
Relay type	SPDT Form C	Analog input scan rate 32 samples/cycle
Visual indicators	Flashing LED for all relay statuses	*Four cards maximum
Power requirement	100mW + 200mW per latched relay	
Contact ratings	10A continuous up to 250VAC	
Operation type	Pulse on, latch on, latch off	
<b>DC Analog Input Module (RTU3200-16DC)</b>		
Number of analog inputs	16/module	
Input range	Consult the factory	
Power requirement	Consult the factory	
Resolution	24 bits	
Accuracy	1%	
Analog input scan rate	32 samples/cycle	

### RTU3200 output with analog input

- A/B/C voltage
- THD to the 8th harmonic
- A/B/C current
- Power factor
- Watts
- Current flow direction
- VAR
- Fault detection
- Phase angle

### Ordering Information

Configure the RTU3200 to meet your needs

└ Select 5 or 9 for a five module or nine module RTU

└ DC- \_\_\_\_\_

└ Select the modules needed (8R, 16S, ACVV, ACVI, or 16DC)

Example: RTU3200 five module base configuration: 5DC-8R-16S-ACVV-B (blank)

