

ACCESSORIES

Model RU2-CS1 Serial Controlled Interface

ANYWHERE YOU NEED...

- RS-232 Control of RDL Modules
- Serial Control of OEM Products
- Control of Eight VCA Modules
- Eight Open-Collector Outputs
- Status Inputs from Eight Sources
- A Free-Standing or Rack-Mounted Interface

You Need The RU2-CS1!



The RU2-CS1 is a chassis based interface that can be used free-standing or rack-mounted with other RACK-UP products from Radio Design Labs. For rack-mounted installations, the RU2-CS1 uses two RACK-UP mounting bays in an RDL RU-RA3 rack mount frame.

APPLICATION: The RU2-CS1 controls 8 **OPEN-COLLECTOR** outputs. It also provides 8 separate **ZERO TO 10 VOLT OUTPUTS** to control external VCAs or other equipment with 0 to 10 VDC control inputs. Eight **STATUS INPUTS** are provided for sensing external switch or transistor closures.

The RU2-CS1 connects to a computer through an RS-232 serial link. Commands may be initiated from a terminal program or from user software that sends and receives commands detailed in the instruction manual.

OUTPUT TERMINAL COMMANDS – A command will either activate or deactivate each of the eight open-collector outputs. A separate command simultaneously activates or deactivates all outputs. A pulse command will provide a 100 mS pulse at a designated output. Each output is pulled to ground when it is active.

0 TO 10 VOLT OUTPUT COMMANDS – The ramp rate for each output can be preset individually or globally. Output commands then initiate a ramp from the present level to a newly defined level. The output level (one or all) may also be sent directly to a new level without ramping. A separate command will set the RU2-CS1 to report the completion of ramping. If any 0 to 10 VDC output is used to control other equipment that uses 0 to 5 VDC control, the corresponding RU2-CS1 output may be set to output 0 to 5 VDC without any loss of resolution.

STATUS INPUT TERMINAL COMMANDS – The RU2-CS1 may be set to provide an alert any time an individual status input terminal changes state (low to high, high to low). Global commands allow enabling or disabling alerts from all status inputs. The controlling computer can also query the status of an individual terminal or all status terminals. A separate command allows the program to provide an alert when a defined pattern of all eight status terminals occurs.

The RU2-CS1 may be operated without any response codes fed back to the computer. An initialization command sets all parameters to known values at the beginning of the user program. Error codes may be enabled to assist in development of controlling software. A pair of RDL RU-SC2 modules may be used to locate the controlling computer at a location remote from the RU2-CS1.

Front panel LEDs show any active audio outputs, active status inputs, transmit and receive data, errors and power. The RU2-CS1 operates from 24 VDC which may be connected either through the DC power jack or terminal block.



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RACK-UP[®] Series

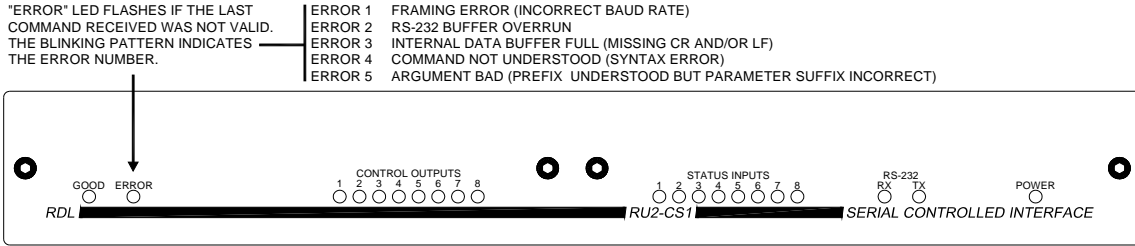
Model RU2-CS1

Serial Controlled Interface

Installation/Operation



EN55103-1 E1-E5; EN55103-2 E1-E4
Typical Performance reflects product at publication time exclusive of EMC data, if any, supplied with product. Specifications are subject to change without notice.



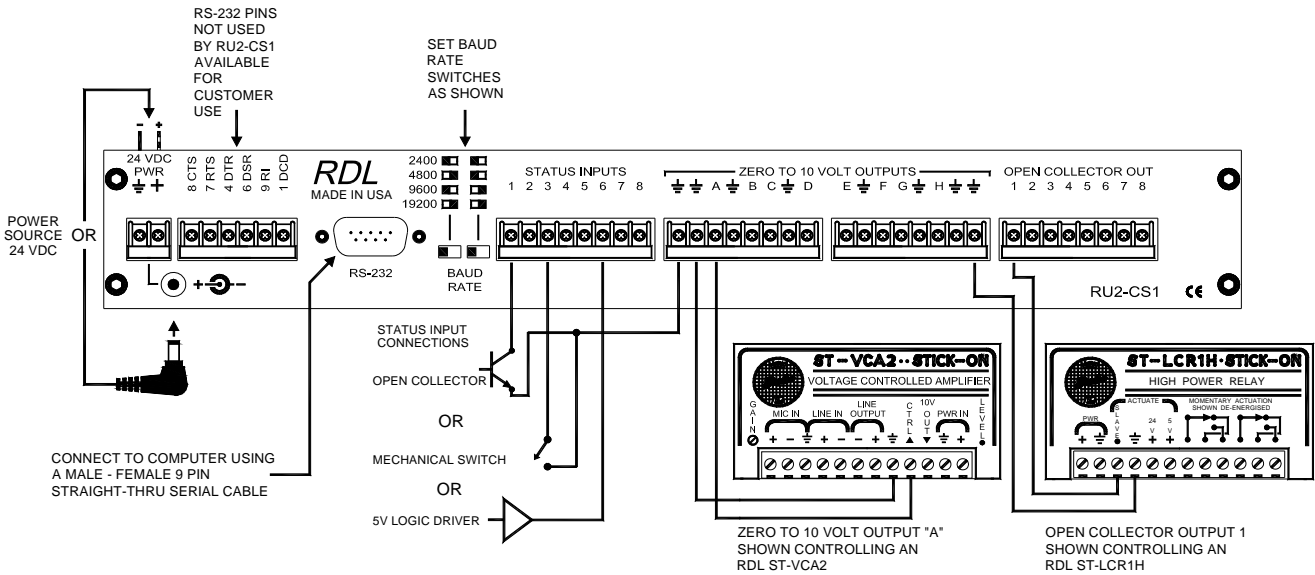
"GOOD" LED IS ILLUMINATED IF THE LAST COMMAND RECEIVED WAS VALID.

OUTPUT LED ILLUMINATES IF THE CORRESPONDING OPEN COLLECTOR OUTPUT IS ACTIVE (PULLED LOW)

STATUS LED ILLUMINATES IF THE INPUT IS ACTIVE (PULLED LOW)

LED INDICATES RECEIVE OR TRANSMIT DATA ON RS-232 CABLE

LED INDICATES POWER IS APPLIED TO THE POWER INPUT JACK



TYPICAL PERFORMANCE

Control Input / Output:

Control Outputs (8):

Status Inputs (8):

0 to 10 VDC Outputs (8):

Ramp Rate for 0 to 10 V Outputs:

Power Requirement:

RS-232 (DB-9 female jack)

Open-collector, 50 mA

Low = active

(internally pulled high to 5 VDC); MAX input 24 VDC

22 Ω ground-referenced, 20 mA, 256 steps

0.5 to 120 seconds

(for 10 V change), individually programmable

24 to 33 Vdc @ 200 mA, Ground-referenced

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rule. These limits are designed to provide reasonable protection against harmful interference in a residential installation. The equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Radio Design Labs Technical Support Centers

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