

Limited Warranty

Duration of the Warranty

This warranty will remain in effect for one (1) year from the date of original purchase.

Who May Enforce the Warranty

This warranty may be enforced by the original purchaser and subsequent owners during the warranty period, so long as the original dated sales receipt or other proof of warranty coverage is presented when warranty service is required.

What is Covered and What is Not Covered

Except as specified below, this warranty covers all defects in material and workmanship in this product. The following are not covered by the warranty:

1. Damage resulting from:
 - A. Accident, misuse, abuse, or neglect.
 - B. Failure to follow instructions contained in your Owner's Manual.
 - C. Repair or attempted repair by anyone not authorized by RTI.
 - D. Failure to perform recommended periodic maintenance.
 - E. Causes other than product defects, including lack of skill, competence, or experience of user.
2. Damage occurring during any shipment of this product (claims must be presented to the carrier).
3. Damage to any unit which has been altered or on which the serial number has been defaced, modified, or removed.

What We Will Pay For

We will pay all labor and material expenses for covered items. Payment of shipping charges is discussed in the next section of this warranty.

How You Can Get Service

If your unit needs service, please write, E-mail or telephone us and we will advise you where the unit should be taken or sent. If you write or E-mail us, include your name, complete address, daytime telephone number and a description of the problem(s). *Please do not return your unit to the factory without our prior authorization.*

If it is necessary to ship the product for service:

- A. You must pay for any initial shipping charges, but if the necessary repairs are covered by the warranty, we will pay the return shipping charges via a carrier of our choice to any destination within the United States.
 - B. The unit should be packed securely, and we suggest that it be insured.
- Whenever warranty service is required, a copy of the original dated sales receipt must be presented.

Limitation of Implied Warranties

Any implied warranties, *including warranties of merchantability and fitness for a particular purpose*, are limited in duration to the length of this warranty.

Exclusion of Certain Damages

RTI's liability for any defective product is limited to repair or replacement of the product, at our option, RTI shall not be liable for:

1. Damages based upon inconvenience, loss of use of the product, loss of time, interrupted operation, commercial loss; *or*
2. Any damages, whether incidental, consequential, or otherwise.

How State Law Relates to the Warranty

Some states do not allow limitation on how long an implied warranty lasts and/or do not allow the exclusion or limitations of incidental or consequential damages, so the above limitations may not apply to you.

This warranty is not enforceable outside of North America. This warranty gives you specific rights, and you may also have other rights which vary from state to state.

Specifications

RS-232 commands are transmit only.

Supports industry standard RS-232 control protocols

Baud Rates ~ 110, 300, 600, 1200, 2400, 4800, 9600, 19200, 38400 and 57600

Data Bits ~ 7 or 8

Stop Bits ~ 1 or 2

Parity ~ None, Even, Odd, Mark, or Space

Connector ~ DB-9 Male.

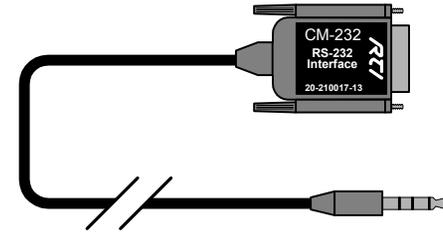
Pins Used ~ GND(Pin 5), TXD(Pin 3)

RTI reserves the right to change product specifications without notice.

RTI Part No. 70-210018-19

CM-232 RS-232 Communication Module

Installation & Operation Guide

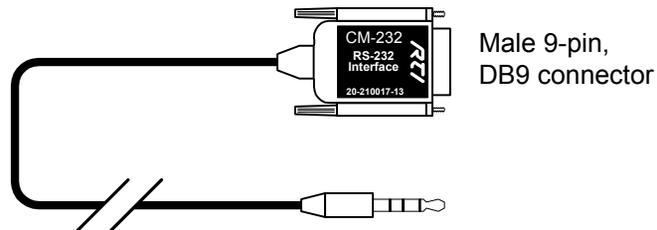


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Introduction

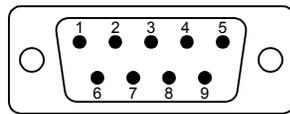
The CM-232 communication module provides an RS-232 interface to almost any RS-232 enabled device. It attaches to an RTI control system such as the TheaterTouch IRF-6 System Interface Module on one end, and a device's DB-9 serial port connector on the other end. The CM-232 is capable of one-way transmission (no receive function is supported) of user-defined character strings. These character strings, as well as the baud rate, parity, and bit structure are programmed using RTI's TheaterTouch Designer software package.

The CM-232 can be used with equipment such as video projectors, high-end A/V equipment, security/video camera controllers, lighting systems, and HVAC systems to name a few.



Male 9-pin,
DB9 connector

12' Control Cable with Custom
3.5mm 4 pin Mini-Plug



Pin 3 - Transmit Data
Pin 5 - Signal Ground

Installation

- 1) Connect the male DB-9 plug to the RS-232 communications port on the equipment you are going to control. If necessary, attach a DB9 gender changer (not included).

Installation (con't.)

- 2) If necessary, the DB-9 end of the RS-232 cable can be extended up to 50 feet with an RS-232 extension cable.
- 3) Insert the 4 conductor mini-plug from the CM-232 control cable into an output port of the IRF-6 System Interface Module or other compatible RTI control system.
- 4) Use the programming software for your RTI System Controller to set the ASCII strings to use for that output. The ASCII string for each individual command can usually be found in the back of the owner's manual, if not, contact the equipment manufacturer for this information.

CM-232 Installation Options

