

Model: rdc232ih

Isolated RS-232 Auto-Select Switch

The rdc232ih allows quick, safe, fool-proof local access to your intelligent field device. No more panels to open. No more cables to trace or disconnect. No more cable trunks to pry open. No more spikes, surges, or ground faults to damage the communication port of your notebook computer or your intelligent field device.

If your panel has a floating, isolated, or filtered ground ... if you have UPS power ... if you are mixing 110 and 230 volts in your project, then this RS-232 isolation is ultra critical anyway. Your customer's (& competitor's) technicians may plug their note-book computers into the normal wall-mounted mains supply. So besides the fool-proof access provided by the 232ih, it's isolation will prevent linking your panel ground to the mains ground through your delicate RS-232 port!

All three ports have 2.5kV optical isolation, plus 3 isolated DC supplies provides full 4-port galvanic isolation. The rdc232ih is fully solid-state for long life. The rdc232ih works with any 5-wire RS-232 devices isolating and switching Tx/Rx and providing floating signal ground for each RS-232.

Specification

Ports / RS-232:

Signal Type : RS-232C, D, and E
Voltage Level : +/- 9 vDC
Signals : Tx, Rx, SGnd1

Isolation

Between Ports : 2500 v (optical, 5kV test)
Ports to Supply : 2500 v (galvanic, 3kV test)

Power Supply:

9v to 36v DC 1.6 watt (Max 65mA @ 24 v)
9v to 36v AC 1.6 watt (Max 65mA @ 24 v)
5v DC +/- 5%, Max 150mA
LEDs (green) indicate input and isolated floating power status

Communication:

Max Speed : at least 115Kbps at 15m
Character Setting : transparent, no configuration required
User Indication : Each port has Tx/Rx and Power LED
Standard Distance : 15m per EIA/RS-232E
Practical Distance : 50m (determined by cable quality, speed and other environmental conditions)

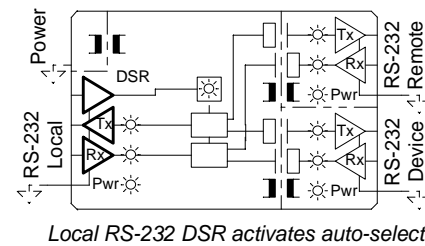
Mechanical / Environment

Operating Range : -20C to +65C
Storage Range : -40C to +100C
Relative Humidity : 10 to 90% RH, non-condensing
Terminals : Compression type. Wire up to 2.5mm(14AWG)
Case Material : nylon polymide, fungus and termite resistant self-extinguishing UL94 V-2
Weight : approx 130g
Mounting Rail : DIN EN50022 (best) or DIN EN 50 035

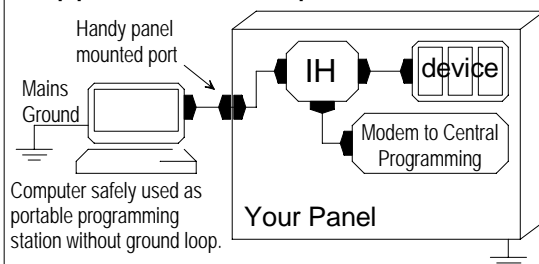
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(Version 1.0) Specifications subject to change without notice.

Block Diagram



Application Example:



As soon as the cable from the notebook is connected, the rdc232ih auto-selects the notebook to program or access the device. As soon as the cable is removed, the rdc232ih auto-selects the remote workstation to program or access the device. What could be easier, safer, or more error-free?

Order Information

rdc232ih	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	Galvanic Isolation Configuration
		<input type="checkbox"/>	2p 2-of-4 port - only Local RS-232 Port isolated
		<input type="checkbox"/>	4p 4-of-4 full galvanic isolation, all ports & supply
		<input type="checkbox"/>	Power Supply Configuration
		<input type="checkbox"/>	5v 5v +/- 5% Regulated DC Supply
		<input type="checkbox"/>	dv 9v to 36v Unregulated DC Supply
		<input type="checkbox"/>	av 9v to 36v Unregulated AC Supply

Dimensions in mm (and inches)

