



Direct RS-232 Communications with Fiber Optic drivers

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The information in this article applies to:

- * Readykey for Windows Version 3.X or Higher
- * Readykey for Windows 16, 32, MS3 and MS Installations

General

- Radionics™ does not specify any specific model of fiber driver as long as it is RS-232 to Fiber Optics.
- This type of communications will require an RS-232 to fiber converter. This converter will need to be asynchronous (Transmit and Receive at the same time).
- Fiber optics can be used to communicate from the serial port of the PC to the master controller in single site installations.
- When using a Central Network Controller (CNC) for Multi-Site applications, you can use fiber optics from the CNC's RS-232 ports to the remote site.

Benefits

- RS-232 data transmission is limited to 50 Ft. When using fiber optics the data transmission may be up to 2.5 miles (dependent on the type of fiber driver used).
- Fiber Optics is an extremely stable means of communications, removing the need for repeated service calls to replace cabling.

Door Controller Setup

- **PC Direct RS-232 to Door Controller**

A. System Type	=	2
B. Baud Rate	=	9600
C. Dip Switches	=	1-3 On, 4 Off
D. Address	=	1

- E. Connect Modem = N
- F. Connect the fiber driver to the Serial port of the PC
- G. Connect second fiber driver to the Master controllers printer port.

- **CNC Direct RS-232 to Door Controller**

- A. System Type = 2
- B. Baud Rate = 9600
- C. Dip Switches = 1-3 On, 4 Off
- D. Address = 1
- E. Connect Modem = N
- F. Connect the fiber driver to the CNC's RS-232 Port 1,2, or 3
- G. Connect second fiber driver to the remote Door controllers printer port.

- **CNC Direct RS-232 Cluster Site**

Master Door Controller

- A. System Type = 2
- B. Baud Rate = 9600
- C. Dip Switches = 1-3 On, 4 Off
- D. Address = 1
- E. Connect Modem = N
- F. Connect the fiber driver to the CNC's RS-232 Port 1,2, or 3
- G. Connect second fiber driver to Master controllers printer port.

Slave Door Controllers

- A. System Type = 3
- B. Baud Rate = 9600
- C. Dip Switches = All Off
- D. Address = 2-8
- E. Connect the slave controller(s) to Master controller via the Six Wire Bus

KBCategory: Installation
KBSubcategory: Communications

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