**OVERVIEW**

**DVD CONTENTS**
- **Server**: Installs Server and Client on one PC only (Setup.exe)
- **Communications Modules**: USB Drivers and utilities (LIF-200, etc.)
- **Documents**: All manuals in PDF format
- **Client**: Installs Client (Setup.exe)
- **Firmware**: Various firmware files
- **Update**: Service packs (if needed)
- **License**: Feature Key
- **Web**: Web Server Installer
- **DVR**: Integration Packs
- **Fingerprint**: Integration Packs
- **Adobe Acrobat Reader**: Included on DVD

**INTERNET ETHERNET LAN GATEWAY - LIF-200 USB TO RS-485**

If all is OK you will see blank screen with blinking cursor and “Trans” light on LIF will light up, if this does not happen contact IT staff for troubleshooting.

Example: at command prompt on Integra32 Server PC type in: `telnet <LIF-200 IP address> <IP port to use>` (c:\telnet 192.168.1.125 3002) hit “Enter”.

This test verifies possibility of a successful connection from Integra32 Server PC to LIF-200: it checks if IP address exists and whether LIF is using right port.

TIP: Use Windows built-in Telnet client to test communications with LIF-200 (you may need to enable it first in Windows Vista, 7, 8).

**Up to 9 simultaneous clients:**
- Client # 1
- Client # 2 (Includes 1 client)
- Client # 3
- Client # 10

**Up to 32 simultaneous connections to Server (panel networks)**
- Panel Network # 1
- Panel Network # 2
- Panel Network # 32

Thin and Web clients are available for Internet connections

Up to 32 doors (16 x 2-door panels or 8 x 4-door panels) per Panel Network

**PC SPEC**

<table>
<thead>
<tr>
<th>Client #</th>
<th>12 VDC</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS-232</td>
<td>T/R+</td>
</tr>
<tr>
<td>RS-485</td>
<td>T/R-</td>
</tr>
<tr>
<td>A+ B- FGND</td>
<td>To more Panels</td>
</tr>
</tbody>
</table>

**PC to Router to Internet to Router to LIF-200 to Controller**

**USB TO RS-485**

RS-232 - RS-485 Selector

Set depending on interface used, also set same in the LIF’s configuration web page

- **RS-232 to IRC Panel ONLY!**
- Alternative to RS-485 connection, uses built in RS232/485 converter on IRC-2000

- **12 VDC** from IRC or URC Panel
- **RS-485 to IRC or URC Panels**
  - POWER LED: On - powered on
  - 100M LED: On - powered on
  - LINK LED: Off - network not connected

Refer to LIF-200 manual for default password and reset procedures

Default IP address: 192.168.168.125  Default IP port: 3002

**STATIC IP ADDRESS REQUIRED**

- **LAN**
- **Static IP Address**
  - **12 VDC**
  - **IRC 2000**

**A. LIF-200 and PC are on the same subnet:**

LIF : XXX.XXX.ZZZ AAA PC : XXX.XXX.ZZZ BBB

To configure LIF-200 type in it’s address into web browser.

**B. LIF -200 and PC are on the same net, different subnets:**

LIF : XXX.XXX.ZZZ AAA PC : XXX.XXX.YYY BBB

Use IP Locator to detect LIF-200 and change it’s IP address, go to A

**C. LIF-200 and PC are on different nets and/or subnets:**

Manually set your PCs IP address to match net/subnet of the LIF-200, go to A to configure LIF-200
NOTES

RTE : Request to Exit, typically motion detector, crash bar, exit button - Shunts door contact and unlocks door for exit
DC : Door Contact (a.k.a. door switch, DSM) - Monitors whether the door is opened or closed
Reader : Card, Fingerprint Reader with/or keypad with Wiegand Interface - Reads user credentials, PINs, etc.
Lock : Electric strike, lock set, magnetic lock or any electrically actuated device - secures an access point
Access Point : Door, gate, turnstile, any point with secured access

Relay Outputs (Marked #N.O./#N.C./#C) : Maximum rating 5A @ 30V, Dry, Form “C” relay
Voltage Outputs (Marked #OC) : 100mA - 12VDC, for solid state devices only (LED, Piezo, etc.)

<table>
<thead>
<tr>
<th>“ON State” Setting</th>
<th>Operation Type</th>
<th>“Output Off” Relay is.</th>
<th>“Output On” Relay is.</th>
<th>N.O. Mark</th>
<th>N.C. Mark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energized</td>
<td>Fail-Secure</td>
<td>Off</td>
<td>On</td>
<td>N.O.</td>
<td>N.C.</td>
</tr>
<tr>
<td>De-energized</td>
<td>Fail-Safe</td>
<td>On</td>
<td>Off</td>
<td>N.C.*</td>
<td>N.O.*</td>
</tr>
</tbody>
</table>

* Functionality of relay polls will be reversed vs. printed marking

Lock: Diode 1N4004 Diode installed at the lock will prevent damage to the controller. Please, use MOVs (metal oxide varistors) for AC powered locks.

INSTALL DIODE on DC powered locks.

Wiring : Up to 1,000’ on 18-22 AWG 2-Cond. cable

To Controller

To EXIT Reader

Reader LED | Status
---|---
Red | Locked
Green | Unlocked
Blinking | “High Security” mode

Reader Sounder | Event
---|---
Long Beep | Access Granted
Two short Beeps | Access Denied
Four Beeps | Mode Changed
Beeping | DHO Warning or PIN request
Continuously On | Door Forced or Door Held Open Alarm

See reader manual for actual color codes!

EXITRDR : This module allows reporting of direction on doors with readers installed on both sides, while using a single reader port on the controller (RBH reader wiring shown)

Complete database is stored on the Server PC, cards and settings are transferred to the panel during the download. Panel retains this data and operates independently, sending events to Server and receiving commands from it. It is not possible to “upload” hardware configuration or card database from the panel. Please configure Integra32 Server’s built in backup function to preserve your data in case of PC failure!