Andover Controls Infinet ii i2 Infilink 200 Communication Unit Installation Guide

Andover Controls Infinet ii i2 Infilink 200 Communication Unit

Contents

Introduction

The Andover Continuum Infinet II (i2) Infilink 200 is an electronic repeater and a 5-port active hub for Andover's Continuum Infinet field bus, designed to transmit RS-485 signals beyond the 31-device/4,000-foot (1.2 km) limitation.

Andover Continuum Infinet II Infilink 200 Communications Unit Features

Product AT A GLANCE

- Five-Port Active Hub for Andover Continuum Infinet Field Bus
- Extends RS-485 Field Bus Communications Beyond the 31 Device/4,000 Feet (1.2 km) Standard Limitation
- AC and DC Models Available
- RS-485 to RS-232 Conversion for Short-Haul Modems
- Detachable RS-485 Connectors Provide Easy Installation
- Switch Selectable Baud Rates, from 300 to 57.6K Baud
- AC Input Voltage Switch- Selectable
- Full LED Indication for Easy Troubleshooting

Andover's Continuum Infinet field bus can be comprised of both Andover Continuum Infinet and Andover Infinet II controllers
The i2200 accepts twisted pair cabling at each of its five RS-485 ports. A single Andover Continuum Infinet RS-485 input supplies up to four RS-485 output signals, or "spokes." Each spoke has the drive capability of up to 4,000 feet (1.2 km) and up to 57.6K* baud with up to 31 separate devices attached.
For conversion applications, when existing phone lines are in place, the same RS-485 input can become a single RS-232 output for use with thirdparty short haul modems. (The four RS-485 output ports are still available when using the RS-232 port.) Data transmission speeds for the i2200 are switch-selectable from 300 to 57.6K baud.*
The i2200 simplifies network troubleshooting by using LED indicators. These LEDs flash to indicate when the i2 is receiving and transmitting RS-232 and RS-485 signals.

Enclosure
The i2200 is provided with a hinged, black 16- gauge, cold-rolled steel enclosure. Installation is simplified by the use of detachable connectors for all RS-485 ports.

AC and DC Models Available

The i2200 is available in two models: The AC model is powered from a standard 115/230 VAC source. A 24 VDC model is also available for applications where battery-backed operation is required.
* **Note:** Only data rates up to 19.2K baud are presently supported on the Andover Continuum Infinet network.

Dimensional Drawings
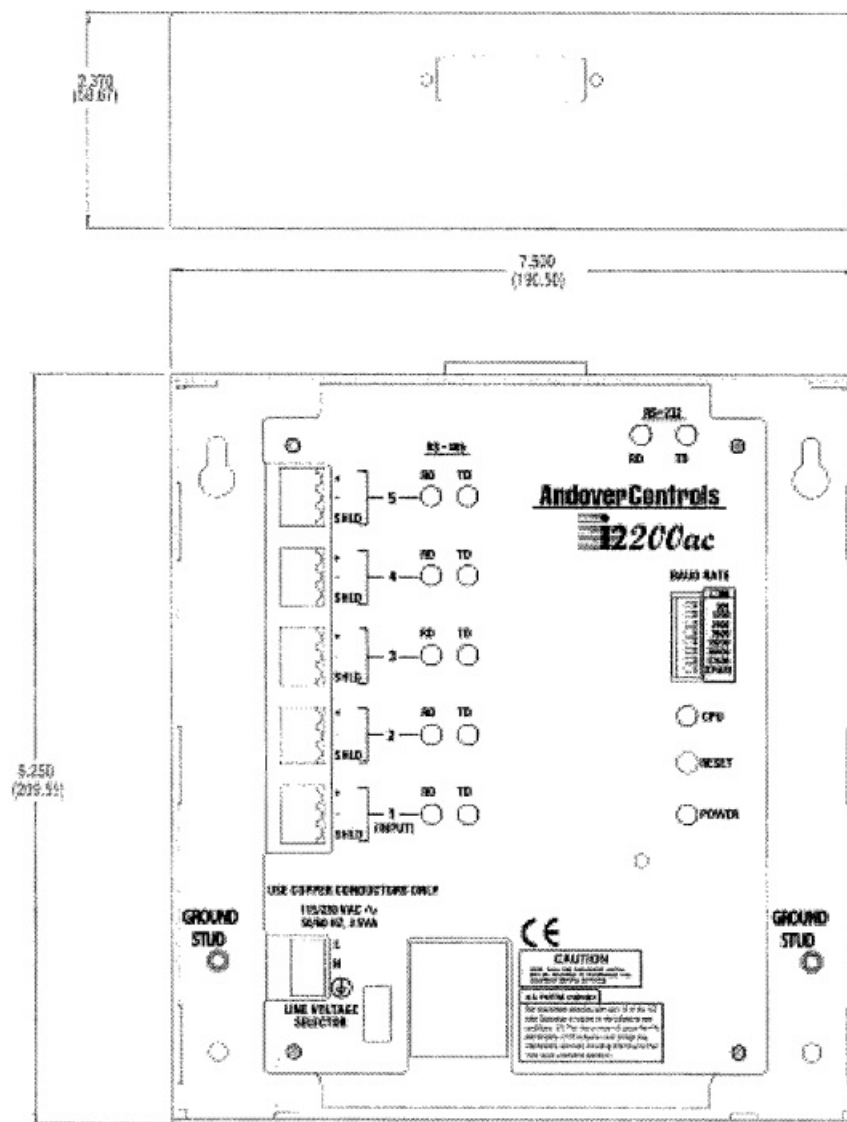
I2 Infilink 200 Dimensional Drawing with AC Power

Optional DC Power Layout

Specifications

Infilink 200 Communications Unit

Electrical
Power
115/230 VAC, 50/60 Hz, switch-selectable, or 24 VDC
Power Consumption
6 VA for AC model;
1.8 W for DC model
Overload Protection
Fused with 2 A fuse. MOV protected.

Mechanical
Operating Environment
32–120°F (0–49°C),
10–95% RH (non-condensing)
Size
6.92″ H x 6.100″ W x 1.960″ D
(176H x 155W x 50D)mm
Weight
2.74 lbs. (1.24 kg)
Enclosure Type
NEMA 1-style 16-GA, C.R.S. enclosure,
flammability rating of UL94-5V, IP 20

Communications
Communications Speed
9600 to 76.8K bps, switch-selectable
Propagation Delay
RS-485 to fiber port = 0.5 µs max.
(not including media delay)
Fiber port to fiber port = 0.5 µs max.
(not including media delay
Bus Length
RS-485 not to exceed 4000′ (1.2 km).
Fiber run not to exceed 12 dB fiber loss including connectors. Note: When connected in series, the maximum propagation delay from farthest node to farthest node (including media
propagation delay) must not exceed 140µs
Bus Media
BACnet: twisted, shielded pair, approved, low capacitance cable
Fiber Optic: 62.5/125 duplex glass fiber optic cable
Pin Assignments for RS-485 to RS-232 Signal
Pin 1: Chassis Ground
Pin 2: Transmit Data
Pin 3: Receive Data
Pin 4: RTS always high (9V)
Pin 7: Signal Ground
Pin 9: 9V/(1) 5k W
Pin 10: 9V/(1) 5k W
Pin 20: DTR always high

Connections
Power
AC: Three-position barrier strip
DC: Three-position fixed terminal block
RS-485 Ports
Removable two-piece terminal strips
Fiber Optic
Two pairs of fiber optic transceiver interfaces (ST)

User LEDs/Switches
Status Indicator LEDs
POWER Power is ON
TEST Test Mode
Fiber Optic
PORT 1-2 TDs Transmit Data
Fiber Optic
PORT 1-2 RDs Receive Data
RS-485 COMM TD Transmit Data
RS-485 COMM RD Receive Data
Switches
Test
Baud Rate

Agency Listings

UL/CUL 916, FCC CFR47 part 15,
ICES-003, EN55022, AS/NZS 3548,
VCCI Class A, CE

Options

AC or DC Power
DIN Rail Kit (P/N:DIN-MTG-KIT)
Part Number Description
B-LINK-AC B-LINK, AC
B-LINK-AC-OP B-LINK-AC, OPEN CLASS
B-LINK-AC-S B-LINK, AC, SMK
B-LINK-DC B-LINK-DC
B-LINK-DC-OP B-LINK, DC, OPEN CLASS
B-LINK-DC-S B-LINK, DC, SMK
B-LINK-F-AC B-LINK, AC, FIBER
B-LINK-F-AC-S B-LINK, AC, FIBER, SMK
B-LINK-F-DC B-LINK, DC, FIBER
B-LINK-F-DC-S B-LINK, DC, FIBER, SMK

AndoverControls

Documents / Resources

[Andover Controls Infinet ii i2 Infilink 200 Communication Unit](#) [pdf] Installation Guide
Infinet ii i2 Infilink 200 Communication Unit, Infinet ii, i2 Infilink 200 Communication Unit, 200 Communication Unit, Communication Unit

References

- 🔥 **Fire Alarm Resources | Download fire alarm documents**