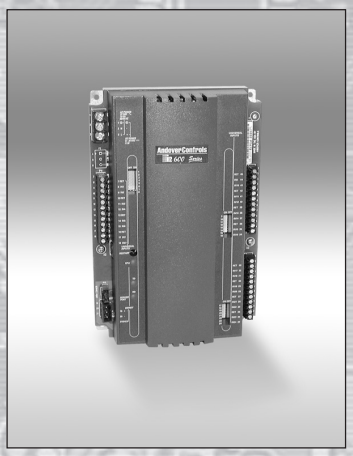
# INFINET II



- **Compact, Cost-Effective Input Monitoring Controller**
- **Powerful, Flexible System Controller for the Most Demanding Applications**
- **Ideal for Monitoring Small or Large Groups of Inputs in a Concentrated Area**
- **Universal Inputs Can be Configured as a Supervised Input for Monitoring Open Wires or Short Circuits**
- **Non-Volatile Flash Memory Provides Utmost Reliability — Stores Both Application Program and Operating System**
- **Local, Extended Storage of Log Data**
- **Local, On-Board Service Port**

## i2600 Series Local Controllers

The i2600 series controllers are designed for monitoring a small or large concentration of input points from a single controller. Choose the i2600 model with the input configuration that matches your application:

- The **i2608,** with eight Universal inputs, is designed for stand-alone equipment monitoring for a small concentration of input points. This controller is also configurable for Supervised Input monitoring to determine broken wire detection or shorts. The i2608 is ideal for Security applications (motion detection, glass break detection, intrusion detection) or traditional control applications (temperature, humidity, etc).

- The **i2624** provides the same functionality as the the i2608 and in the same small footprint of the i2608, but with three times the number of input points (24) for monitoring various device signals. With the small footprint and high point count, the i2624 is ideal for large concentration of inputs, reducing the number of controllers required in the system, and decreasing cost, complexity, and maintenance requirements.

The i2600 series also features Flash memory, increased user memory, and a fast (32-bit) processor for faster scan times, with plenty of memory available for data logging of your critical data.

The i2600 series communicates with the entire Andover Controls Infinet™ RS-485 field bus; i.e., both Infinet and Infinet II controllers, and is compatible with the *Continuum*® CyberStation Version 15 front-end. Up to 254 Infinet devices can be networked to any Andover network controller.

### INCREASED RELIABILITY WITH FLASH MEMORY

The i2600's non-volatile Flash memory stores your operating system *and* application programs, so that in the event of a power loss, your application will be restored when power is returned. In addition, the Flash memory allows for easy upgrades of your operating system via software downloads, eliminating the need to swap out proms. The i2600 controllers include an on-board battery to safeguard your runtime data — protecting all point data and log data from being lost if power is removed.

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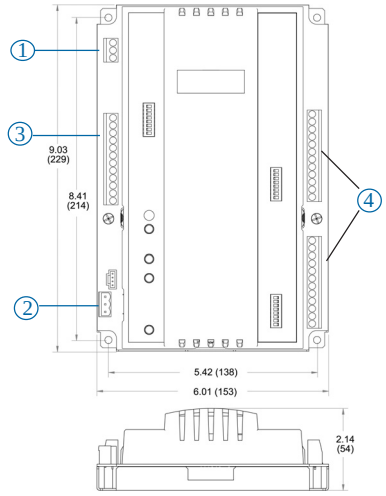
## INPUTS

The input configuration on the i2600 series consists of eight (or twenty-four) full range, 10-bit Universal inputs that accept voltage (0-5VDC), digital (on/off), counter signals (up to 4Hz), temperature signals, or supervised alarm circuits for security applications or broken wire detection.

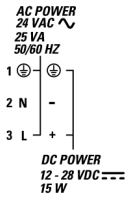
## SOFTWARE CAPABILITIES

The dynamic memory of the i2600 can be allocated for any combination of programs, scheduling, alarming, and data logging using the powerful Andover Controls *Plain English*® programming language. Our object-oriented *Plain English* language with intuitive keywords provides an easy method to tailor the controller to meet your exact requirements. Programs are entered into the i2600 using the *Continuum* CyberStation®. Programs are then stored and executed by the i2600 controllers.

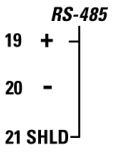
Programming multiple i2600 series controllers is inherently easy with *Plain English*. A complete copy of one i2600's programs can be loaded directly into other i2600s without changing any point names or programs.



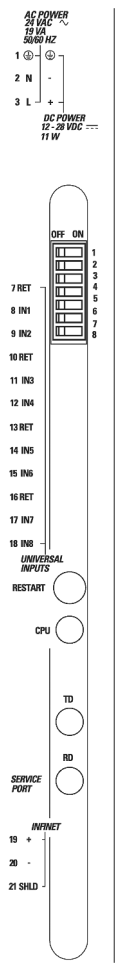

Dimensional Drawing



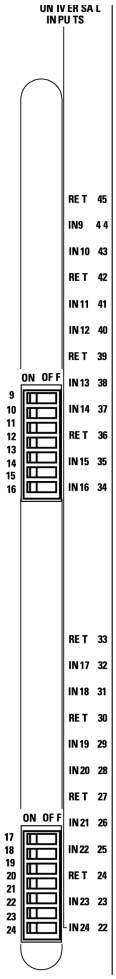

1 Power Drawing




2 Communications Drawing




3 i2608 and i2624




4 i2624

Inputs Drawings

# SPECIFICATIONS

## i2600 Series Local Controllers

## ELECTRICAL

| | |
|---|---|
| **Power:** | 24VAC, 12-24VDC - auto sensing, +10% - 15%, 50/60 Hz |
| **Power Consumption:** | 25 VA |
| **Overload Protection:** | Fused with 3 amp fuse. MOV protected. |
| **Software Real-Time Clock:** | Synchronized through Infinet by network controller |

## MECHANICAL

| | |
|---|---|
| **Operating Environment:** | 32°–120°F (0–49°C), 10–95% RH (non-condensing) |
| **Size:** | 9.03"H x 6.01"W x 2.14"D (229 H x 153 W x 54 D) mm |
| **Weight:** | 1.19 lbs. (.54 kg) |
| **Enclosure Type:** | UL Open class, IP 10. Flammability rating of UL94-5V |
| **Mounting:** | Panel mount |

## BATTERY

| | |
|---|---|
| **Battery Backup:** | Replaceable, non-rechargeable, lithium battery. Provides 5 years typical accumulated power failure backup of RAM memory |

## COMMUNICATIONS

| | |
|---|---|
| **Communications Interface:** | Through Infinet RS-485 field bus to network controller |
| **Communications Speed:** | 1200 to 19.2K baud |
| **Bus Length:** | 4,000 ft. (1,220m) standard for Infinet, i2 Infilink module allows extension to longer distances and is required after every group of 32 units on the network. |
| **Bus Media:** | Infinet: twisted, shielded pair, low capacitance cable |
| **Comm. Error Checking:** | International Standard CRC 16 |
| **Compatibility:** | *Continuum* CyberStation Version 1.5 |

## INPUTS

| | |
|---|---|
| **Inputs:** | b3608: 8 Universal inputs<br>b3624: 24 Universal inputs<br>Voltage (0-5.115 VDC); Temperature -30°F to 230°F (-34°C to 110°C), Digital (on/off), Counter (up to 4Hz at 50% duty cycle, 125 ms min. pulse width). Supervised Alarm (single or double resistor). Current input (0 - 20 mA) using external 250 ohm resistor |
| **Input Voltage Range:** | 0-5.115 volts DC |
| **Input Impedance:** | 10K ohm to 5.120V or 5M ohm with pull-up resistor disabled |
| **Input Resolution:** | 5.0 mV |
| **Input Accuracy:** | ±15mV (±0.56°C from -23°C to +66°C or ±1°F from -10°F to +150°F) |

## CONNECTIONS

| | |
|---|---|
| **Power:** | 3-position fixed screw terminal connector |
| **Inputs:** | Inputs 1-8 (*both b3608 and b3624*):<br>12-position fixed screw terminal connector<br><br>*b3624 only:*<br>Inputs 9-16:<br>12-position fixed screw terminal connector<br>Inputs 17-24:<br>12-positon fixed screw terminal connector |
| **Communications:** | 3-position removable screw terminal connector |
| **Service Port:** | 4-position shrouded connector |

## USER LEDS/SWITCHES

**Status Indicator LEDS:**

| | |
|---|---|
| CPU | CPU Active |
| TD | Transmit Data |
| RD | Receive Data |

**Switches:**

RESET
Input Pull-up Resistor Switch (per input)

## GENERAL

| | |
|---|---|
| **Memory:** | 128K SRAM, 1MB FLASH |
| **Processor:** | Motorola 32-bit Coldfire |

**Note: i2600 Series REQUIRES *Continuum* V1.5 version (or later) of software**

## AGENCY LISTINGS

UL/CUL 916, FCC CFR 47 Part 15, ICES-003, EN55022, AS/NZS 3548, Class A, CE

CE c UL us LISTED 58B2 OPEN ENERGY MANAGEMENT EQUIPMENT

## OPTIONS

UL864, Smoke Control System Equipment, UUKL (i2608-S, i2624-S)

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